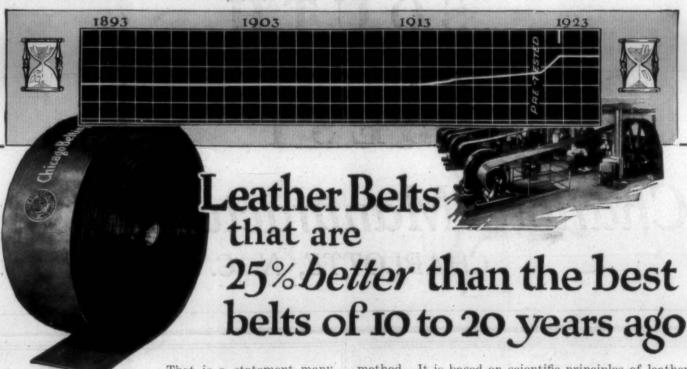
Better Equipment for Southern Mills

TEXTILE BULLETIN

VOLUME 26

CHARLOTTE, N. C., THURSDAY, MAY 22, 1924.

NUMBER 12



That is a statement many old-time belt users may be skeptical of. Especially those who have Chicago Belting belts on their pulleys today that have lasted over 20 years so far—with the belts still running and apparently good for many years to come.

It would naturally be difficult for such men to see just how our leather belts could be improved that much.

But it is true nevertheless. Chicago Belting pretested Leather belts are approximately 25% better today than the best belts of 10 to 20 years ago.

There are many reasons for this improvement. Our leather is better tanned for belting purposes—it is more pliable—has a higher adhesion to the pulley—has a greater average tensile strength—and has a better surface. The surface grips the pulley better—so that any Chicago Belting belt has an efficiency of 98.5% or better on any well designed drive.

But the principal reason for this improvement is covered by the one word "pre-tested." Pre-tested is a method—a method of manufacturing leather belts so that they are better than belts made by any other

method. It is based on scientific principles of leather belt manufacture and produces leather belting of known and guaranteed test ratings that can be recognized and checked by buyer and maker alike.

It enables the belting buyer to place his leather belt purchases on a more economical basis than ever before. It assures him of receiving the best possible values for his money—gives his plant better

belts—and helps him to do his buying of belting more intelligently.

What Chicago Belting pre-tested leather belting is—what it means to the belting buyer and who makes it is the title of a little booklet that is just off of the press. A copy will be sent to you if you are a mill executive—or foreman. The demand for this booklet is very large so send in for your copy as soon as you can. They are free of charge—and free of obligation. And they describe a method

that you will probably install after you have read the book. The largest consumers of belting in the world are already doing so.



Chicago Belting Company

TORK Manufacturers of leather Belting Los Associations 113-125 North Green Street

Milliagure 11

Chicago Belting

Card Clothing

made in the

SOUTH

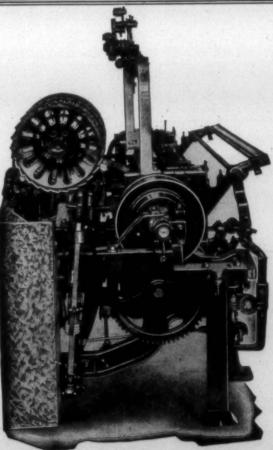
equal to the

BEST

Charlotte Manufacturing Co.

CHARLOTTE, N. C.

End-View of our Nordray Loom With Lacey Top-Ri



HOPEDALE MFG. COMPANY Milford. Mass.

Greenville S. C.

Build a Simple Automatic With Rugged Design

WHITIN MACHINE WORKS TEXTILE MACHINERY

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COTTON WASTE MACHINES Cotton and Woolen Systems

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ler Cards Spoolers
sers Twisters
Special Spinning Frames
SILK MACHINES
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WOOLEN TO SPINNING FRAME

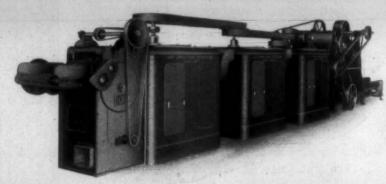
WOOLEN MACHINES Card Feeds Full Roller Cards

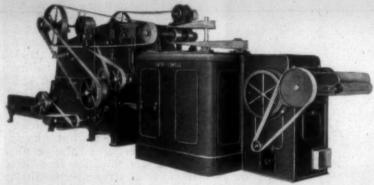
Condensers Wool Spinning Frames WORSTED MACHINES Cone Roving Frames

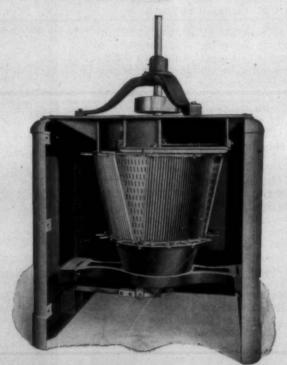
MAIN OFFICE AND WORKS
WHITINSVILLE, MASS, U.S.A. SOUTHERN OFFICE CHARLOTTE. N.C.

SACO-LOWELL

Pioneer Builders of Vertical Openers and Bale Breakers in America







After building Vertical Openers for about twelve years, we now have approximately eleven hundred operating. They are being used to open and clean cotton of practically every length of staple.

Our first Vertical Opener was well received because of the many improvements we had made as compared to the original English built Creightons.

Naturally, on account of our success, other manufacturers have entered this field, but in the meantime we have gained much knowledge thru experience and have made many improvements on our original machines, some of which are protected by patents.

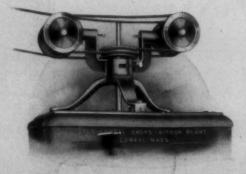
Note the Patented Adjustable Grid Bars illustrated here.

Simplicity in operation has been our slogan in all of our machinery.

We build the balanced rope drive, if anyone prefers this, but believe our improved belt drive is simpler to handle and more satisfactory. We are equipped to furnish stands for Vertical Motors if mill wishes this type of drive.

Note the sturdy simplicity of each machine in the Vertical Opener Bale Breaker Combination illustrated here.

Let our experience be of value to you and call for our sales engineer to discuss this equipment with you. Let him tell you the names of your neighboring mills that are already satisfied users of Saco-Lowell opening, cleaning, conveying and distributing equipment. Let our sales engineer show you how this equipment will pay for itself in a short time. He will give you Saco-Lowell's best advice, which is the culmination of one hundred years of experience in building Textile Machinery.



SACO-LOWEL SHOPS

No. 1 Federal St. BOSTON, MASS. Sales Offices
1220 Mint St.
CHARLOTTE, N. C.

Masonic Building GREENVILLE, S. C.

IF THOMAS EDISON SAID:

Thomas Edison said that he had something in the way of an improvement in electrical apparatus; if Henry Ford claimed he had a better car; if John D. Rockefeller would declare he had a substitute for gasoline, the World would sit up and take notice, and the claims would be promptly investigated. And yet, not one of these eminent authorities has ever given as much study and attention to his respective profession and calling as has the HOUGHTON RESEARCH STAFF given to the study of the requirements of the Industries in Oils, Greases and Leathers.

As eminent as are these great authorities, there is not a single one of them, but who at times has made a blunder, or a false prophecy, which is, of course, due to the fact that they are all individuals of strong personality, acting as individuals in all their research endeavors, free to give public expression to any opinion they please. But the HOUGH-TON RESEARCH STAFF has never yet made a real "bull." This is because the knowledge of the Houghton Research Staff is organizational and not individual, and there is no strong character who dominates the Staff to prejudice its deliberations, or final conclusions.

Therefore, when E. F. HOUGHTON & CO., the corporation in control of the HOUGH-TON RESEARCH STAFF, its actions and products, makes a claim concerning an oil, grease or leather, for mill use, the claim comes from the highest known authority.

This is not an idle boast of the accomplishments of any one individual, or referring merely to the present, for the HOUGHTON RESEARCH STAFF is 58 years old and there is not a single one of its original members alive today. This is merely stating a fact concerning a recognized authority.

The HOUGHTON RESEARCH STAFF was the originator of petroleum steam engine cylinder oils; E. F. Houghton & Co. was for four years the only marketer of such oils in the World. The HOUGHTON RESEARCH STAFF has studied steam engine lubricants and lubrication as it has studied no other subject. When, therefore, that authority states positively that, by the use of HOUGH-TON'S CYL-TAL, the cost of the lubrication of steam engine valves and cylinders may be reduced 50%; the lubrication substantially improved; and all difficulty from oil in the boiler or exhaust steam eliminated, it is an authoritative statement, worthy of investigation.

If true, no mill can afford to use cylinder

The truth may be ascertained by the simple method of trying a trial drum of CYL-TAL, on your own terms of approval.

CYL-TAL is a grease at atmospheric temperatures, but is an oil at temperature of service. In order to keep it fluid and feed it in drops, a special type of lubricator is nec-essary. That lubricator we will furnish free essary. That lubricator we will rurnish free for test, and if you decide to adopt CYL-TAL after the test, we will sell the lubricator to you at cost. If the test is not satisfactory, you return CYL-TAL not used, lubricator and all, and send us a bill for the labor of putting on and taking off the lubricator.

This offer is being made generally to every steam user in the United States and other English-speaking nations, and we would not dare to run the risk of such an enormous loss as a large number of returns would cause, were the merits of CYL-TAL not certain.

The offer is made not because we believe in the merits of CYL-TAL, but because WE KNOW, and we know because we are experienced and skilled in this particular branch of the oil business—the lubrication of the valves and cylinders of reciprocating steam

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DUDUDUDUDU POR CORCOROR Oils and Leathers for the Textile Industry



AUTOMATIC SPOOLING

By the Barber-Colman Process results in Better Yarn and Greater Production at lower Cost.

Every Knot a Weaver's Knot



High Speed Beam Warpers
High Speed Ball Warpers
Twisting Creels for Ply Yarns

Full Data Furnished on Request

Barber-Colman Company

Rockford, Illinois

Boston, Mass.

Greenville, S.C.

Your Profits Will Be Increased By Efficiently Opening Cotton

Every mill that has discarded the antiquated truck openers and adopted either the vertical type openers or the highly improved horizontal opener of comparatively recent introduction, will testify to the tangible gains in profits and quality, through the efficiency of these machines, in opening and cleaning cotton.

With the improved, modern opening machinery high quality yarns can be made with low grade cotton. Opening machinery of the most modern types not only opens the cotton to the fluffiest possible condition, but takes out so much dirt and trash that a single section picker will usually do the work that a double section picker does where old style openers are used; saving one picker operation, labor expense and machinery investment.

These modern opening machines eliminate "kinky" cotton, produce more uniform lap, accelerate production and improve the quality of the finished product.

The sage advice of cotton research specialists today is: to replace antiquated opening machinery with modern types. It is because of the use of vertical type opening machinery that British mills are enabled to turn out superior products from low grade cotton. These openers, running at decreased speed, open the cotton to fullest fluffiness and extract an almost incredible amount of dirt.

NOW is the advantageous time to change to modern types of opening. You can install new opening machinery NOW with greater all-round profit than ever before.

Every move you make to increase the standard of quality in your mill adds strength to the South's textile supremacy, and will return to you a twofold reward in decreased profit leakage and increased quality.

> Keep The South Leading in Big Scale Production to Quality Textiles

Think More About Improved Opening Machinery—Think NOW

Better Equipment Campaign

This advertisement contributed to by the following firms:

Easton & Burnham Machine Co.
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Terrell Machine Co.
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T. C. Entwistle Co.

EXTILE BULLETIN

PUBLISHED EVERY THURSDAY BY CLARK PUBLISHING COMPANY, \$9-41 S. CHURCH STREET, CHARLOTTE, N. C. SUBSCRIPTION \$2.00 PER YEAR IN ADVANCE. ENTERED AS SECOND CLASS MAIL MATTER MARCH 2, 1911, AT POSTOFFICE, CHARLOTTE, N. C., UNDER ACT OF CONGRESS, MAR. 3, 1879.

VOLUME 26

CHARLOTTE, N. C., THURSDAY, MAY 22, 1924.

NUMBER 12

Improved Opening Machinery

By a Representative of the Saco-Lowell Shops.

to their opening and cleaning equip—American mills.
ment than American mills. On ac—There are p ment than American mills. On ac- There are probably in use in machines, arranged to work auto- would be required to truck cotton count of watching this department. American mills now, twelve hundred matically with each other, than to from the warehouse to the mill. carefully, and with their more im- Vertical or Creighton openers, but open it completely on one machine. The cost of an opening, cleaning proved opening machines, they are there are still today many mills that this is done to eliminate injury to and conveying system for a producable to buy lower grades of cotton do not have this opening and cleanaverage American mills.

The Creighton opener was first tages.
built about sixty years ago. This Vertical openers are now being in-

machinery for feeding. The vertical position of the cyl- successfully takes out the heavy less of the amount of conder made necessary the use of a sand and second machine takes out apron, a regular amount step bearing to support the heavy as much in quantity, but about half the opening equipment. cylinder. It usually consisted of a as much in weight as the first. The Every practical miles the machine, it was directly in the as the second machine, but this third path of sand and lint falling from the machine's droppings consists large-working chamber, and could neither ly of leaf. It is clear to the practical of the machine. An oil reservoir dition that it is almost impossible from compressed bales can be fed was also provided to lubricate it. for the cards or the latter machinery directly into the opening equipment This bearing was a constant source to remove these fine specks. Many by a bale breaker. of trouble, and frequently became mills state that their cotton is raised hot enough to cause fires, which at least one grade by passing spread to the machines following or to the bins of open cotton. This machine soon came to be regarded as too great a fire hazard, and mill men believed that the opening and cleaning advantages of this machine were

this fire hazard. About twelve or thirteen years betterment of cotton mill equipment, tainly has need of it ago, one of the largest American In connection with the openers, it manufacturers of cotton mill mach- was necessary to develop a better

paid a great deal more attention machine became popular with proved that it is more practical to ing systems properly fed give no

for a higher class yarn or cloth than ing and cleaning equipment, and cally deliver cotton from the bale hours would be approximately \$4,the average American mills. they should investigate its advanto the picker room in a clean, well 000. This system would easily elim-

at least one grade by passing through Vertical openers.

believe that the manufacture of the Vertical opener, with its mechanical equipment, but any mill that does not sufficient to more than balance improvements, has been one of the not have one of these modern sys- the quality of work. greatest forward steps toward the tems of opening and cleaning cer-

manufacturers of cotton mill mach—was necessary to develop a better The modern spinning mill now of the original lappers, inerty, realized the importance of method of feeding this equipment has an opening room adjacent to the The lapper has two of this machine as an opening and a than was formerly known. The cotton warehouses. The opening tions, the removal of cleaning machine, and after many light feeders which we use to feed equipment delivers the opened cot—forming of stock into

ENGLISH cotton mills have always frequent breakages, and then the per cubic feet. Experience has sucked to the picker room. Conveyopened fluffy condition.

popularity was enjoyed only for tandem. Some mills have cotton fical openers, is equipped with a on a \$4,000 investment. Such savings short period because of many in- passing through two vertical openers long feed apron, so that the mill can as these are always interesting to a herent mechanical defects; improp- and some three. In cases where cot- mix a number of bales right on the progressive manufacturer. er bearings, and also lack of proper ton passes through two or three bale breaker apron. This bale Automatic Distributor. ton passes through two or three bale breaker apron. This bale vertical openers, the first machine breaker is so equipped that regard-

hardened steel plug in the base, a second machine begins to take out known for years the value of ageing er. similar plug set in the end of the large pieces of leaf, and consider- cotton by piling up layers from va- in hoppers must be maintained at a cylinder shaft and a double convex ably raises the grade of cotton rious bales by hand, to allow the uniform level.

washer of hardened steel between. Where a third machine is used, it fibers of cotton to gradually open Feeding by hand requires constant

> We do not think that too much cotton. stress can be laid upon proper open-

Every mill does not need the same

Conveying Equipment.

deaning machine, and after many light feeders which we use to feed equipment delivers the opened cotmonths of experiments adopted an breaker pickers were too light to ton to a galvanized iron pipe line. The first is accomplished by the
entirely new kind of bearing, which successfully handle tightly comThe cotton is conveyed through this beater and cleaning grids, the latter
overcame all the old bearing defects, pressed bales, without a previous pipe line to the picker room by the united action of the fan.
removing completely the fire hazard, opening. Statistics show that extra
use of an exhaust fan and condenscreens and calender rolls. Inferior
They also designed a new type of hard compressed American bales, ser. No cotton should pass through laps mean inferior work on the
drive to tke the place of the original which averaged 23 pounds per cubic
the fan on account of the great fire cards and subsequent processes,
halance rope drive, which was a feet before the war, are now comhazard. Therefore the cotton now therefore today the picker room is
considerable trouble to mills, due to pressed to approximately 35 pounds is not blown to the picker room but

(Continued on Page 31)

open gradually by using a series of trouble and save all the labor that

inate the services of one man. Fig-The modern bale breaker which is uring his services at \$900 per year, machine was very popular, but its stalled in certain American mills in built to feed one, two or three ver- a mill would then save \$900 annually

The essential requirement of a less of the amount of cotton on the picker lap is its evenness of weight, apron, a regular amount is fed to which depends largely upon the regularity with which the stock is Every practical mill man has delivered from the automatic feed-To obtain a regular feed, stock

Feeding by hand requires constant As it was located in the center of out about half as much in weight and straighten out through the ab- attention and an immense amount of sorption of moisture from the air. hand labor. The Morton automatic This process was slow, and required distributor provides a regular, conlarge amount of space and hand stant feed without attention. Cotton ine was running. In order to pro- removed at this stage in the pro- designed to automatically, with the an endless belt automatically delivteet it from sand and keep it cool, cess of cotton yarn manufacturing, cheapest labor cost possible, take ering it to any number of hoppers it was encased in a water jacket, that the leaf will not be pulyerized the place of this old prothed. it was encased in a water jacket, that the leaf will not be pulverized the place of this old method, as the Proper adjustments are provided for fed from a reservoir at one corner in the picker, and be in such conmachine is so arranged that layers regulating the amount of cotton to he fed to each hopper, resulting in an even weight of laps and a uniformity of blend and mixing of the

The cost of a distributor equip-Vertical openers do not injure the We do not think that too much stalled is about \$1,600. By this \$1,600 cotton or long staple cotton. We opening and cleaning equipment. eliminate one man. Again a labor saving of \$900 can be made on a \$1,600 investment and still improve

Picking Equipment.

The new features of pickers are largely refinements of the principles

The lapper has two distinct func-tions, the removal of dirt and the forming of stock into a roll or lap.

Improved Opening Machinery

THE various machines that are made by the H. & B. American Machine Company, Pawtucket, R. I., for the better opening of cotton are described in the following article. The informtaion concerning these machines is supplied by a representative of this company.

Automatic Regulator for Hopper Bale Opener.

Their patented automatic regulator for the hopper bale opener is even opening and to prevent choking. The makers recommend a long feeding apron at the back of this machine so that the operator can deposit layers of cotton from several different bales of cotton at one time, in this way providing for a good mixing of the stock.

Crighton Opener.

The Crighton Opener has been in long and successful use in England

cotton. Another advantage of this machine is that it can be adapted for use in almost any combination of opening equipment.

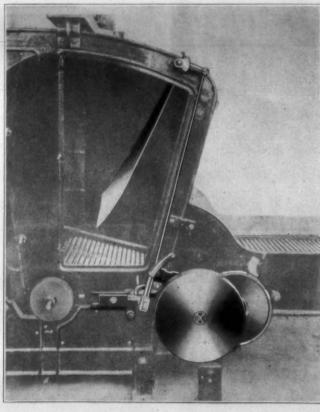
English Cleaning Trunk.

The English Cleaning Trunk is manufactured in sections, these coming in four-foot lengths and being supported by stands on the floor. It is common practice to couple several of these sections together. In operation, the cotton is drawn over vertical sheet iron plates and grids and a considerable amount of dust

Buckley Opener.

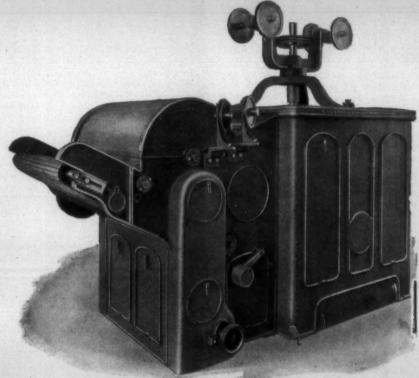
The term "Buckley" has been in use in this country for many years and, as generally understood, has referred to the type of beater rather than to a complete machine unit.

The original Buckley Opener was the outgrowth of the Willow, the most essential feature of which was the large cleaning area obtained by the upward stroke of the beater. Continued experiments and improvements have greatly increased the efficiency of this machine. It is



H. & B. Patent Automatic Regulator for Hopper Bale Opener.

designed to stop and start the feeding apron as the machine requires it, so as to keep a uniform height of cotton on the hopper at all times. This regulator in made to insure a steady and even feed, thorough and and the H. & B. American Machine Company has also made a large number of installations in this country. On account of its excellent cleaning qualities, it is especially suitable for working low grades of

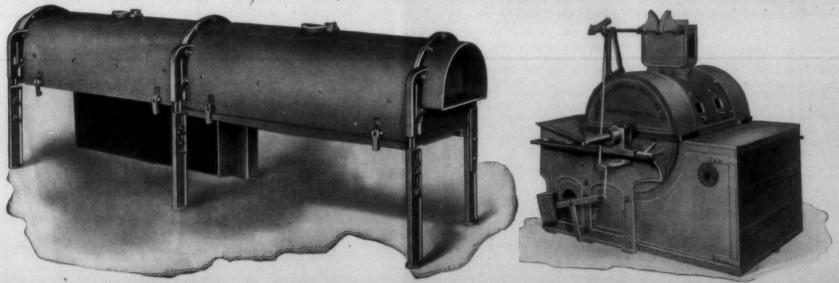


H. & B. Crighton Opener.

leaf, trash and seeds is shaken outand deposited in the spaces between the vertical grids. This machine can be cleaned by dropping doors which cover the entire bottom of the trunk and carry the grids.

now universally used in England on both medium and long staple cotfons.

The H. & B. American, Machine Company has recently brought out (Continued on Page 16)



H. & B. English Cleaning Trunk.

H. & B. Exhaust Opener.

as by er.

WHERE fine textiles are colored; where uniformity of product is required; where the utmost in laboratory and practical dyeing service is appreciated; the textile dyer prefers

NATIONAL DYES



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Philadelphia San Francisco Chicago Montreal Charlotte Toronto

oyou use Desirable Sisse 16 x 26 18 x 28 26 x 30 24 x 36 send for 121 Beach St., Boston 1024 Filbert St., Philadelphia 78 Fifth Ave., New York

Whitin Picker Room Machinery

By a Representative of the Whitin Machine Works.

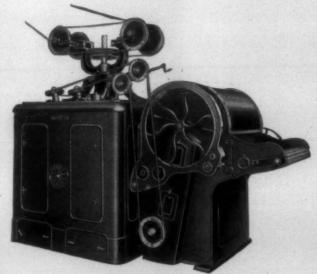
into bringing out other improved

type of Atherton picker. through the spinning drawing rolls.

Since 1913 we have gradually increased in number as to type of Machine Works is attempting to condensers, automatic distributors, evener motions, openers, dust air the partly opened cotton ag trunks, willows, and recently we vibrating adjustable fingers machine, and each and every ma- combers, less waste throughout, and

IN 1831 the Whitin Machine Works 000 pounds for our old style opener. came into existence when it There is, however, always the dan-started to build the picker invented ger in any rotary method of opening by John C. Whitin. From that year cotton of not only curling the fibres. until 1885, approximately, we con-breaking good fibres, but also of tinued to make pickers, discontin-balling up the cotton into tight bolls uing at that time to put our energy whereby it is most difficult for the beaters to extract the remaining types of the many classes of textile leaf, sand, grit and that fine peppery machinery which we build. How- stuff which does so much to dull the ever, in 1913, we again entered into card cylinder fillet, the top flats, and the field of picking machinery and even which is seen dropping on the brought out the Whitin improved roller beams as the yarn passes roller beams as the yarn passes through the spinning drawing rolls. It is this situation that the Whitin

machine from the making of break- meet by the development of their er, intermediate and finisher lappers C. O. B. cleaning machine—a mato the inclusion of bale-breakers, chine designed to clean, open and bloom the cotton by means of agiautomatic feed and gauge boxes, tating by the action of a blast of evener motions, openers, dust air the partly opened cotton against have added vertical openers with gentlest, the most harmless method rope or helt drive, hard waste ma- of cleaning cotton. This process chines and the improved C. O. B. means less work for the cards,



Whitin Vertical Opener, with Rope Drive. This opener is also made with belt drive.)

skill, care and quality.

Every mill man knows the damage that can be done to cotton as it goes through the picking room due to excessively hard beatings. A poorly run picker room means curled fibres, poor cleaning and much good cotton fibre broken and lost.

In all our picking machinery we aim at giving the mills the opportunity of cleaning and preparing the cotton with the minimum amount of injury to the fibres.

Like all our machines the Whitin bale breaker can be set to give worker, with a production which, though amply large for all purposes, means quality. If necessary, this bale breaker can ge set to give

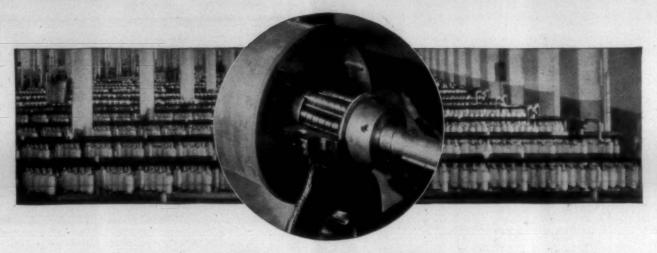
The Whitin Machine Works make two styles of openers, the old style with the well-known buckley type of beater, usually fed by an automatic feeder, and our new style, the Whitin vertical opener. The latter gives a much greater production, 6,000 to 10,000 pounds as against 5,-

chine is built with the usual Whitin a better, stronger, higher quality of yarn.

As mentioned in the early part of this article we make what might be termed the accessories to a picker room. By this we mean condensers, automatic distributors, automatic feed and gauge boxes, dust trunks and evener motions. All of these machines are made to stand hard and exacting work, and in all ways are assembled with the utmost care. The evener motion has been developed to a point of great sensitiveness and has, when attached to the breaker picked, done away with the intermediate process of picking in many cases. As always, any opportunity to talk over possible additions or changes in picker rooms is always welcomed.

In the up-to-date lapper, both breaker and finisher, as built by the Whitin Machine Works, one will find the most approved principles applied. All beaters run on silent ball bearings, which mean less up-keep, less oil, less friction and less

(Continued on Page 31)



The Dollar Value Of Saving 1/2 H.P. per Frame

A Southern Mill (20,000 spindles) spends \$9,825.00 each year on power for spinning alone as follows:

No. of 252 Spindle Frames		Average H.P. each (tape drive)	Total H.P.	Average Cost per H.P. year	Annual Power Bill
80	x	4.91 =	393	@ \$25.00 =	\$9,825.00

Based on repeated mill tests, a saving of \$1,020.00 would result with Hyatt bearings on cylinder shaft only, thus:

No. of Frames	Average Saving H.P.—per Frame		otal H.P. Saved		Average Cost per H.P. year		Annual Power Saving
80 2	.51	=	40.8	@	\$25.00	=	\$1,020.00

If Hyatt bearings had originally been specified on the cylinder shafts at \$35.00 extra per frame, the total additional cost would have been \$2800.00.

Investment Value = $\frac{\text{Annual Saving}}{\text{Total Cost}} = \frac{$1020}{$2800} = 36\%$

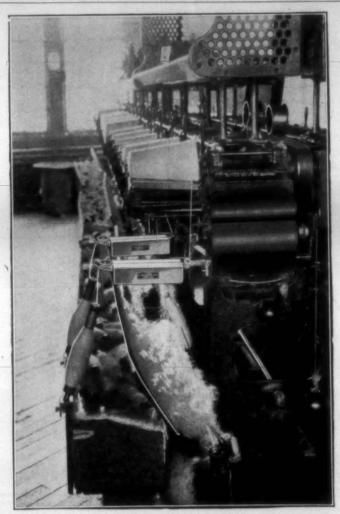
In the East power costs are higher, making this return proportionately larger. And throughout the country the trend is decidedly upward.

By specifying Hyatt roller bearings you can secure this power saving, together with the additional advantages of lower maintenance costs and dependable operation.



HYATT ROLLER BEARING COMPANY

NEWARK DETROIT CHICAGO SAN FRANCISCO HUNTINGTON PHILADELPHIA PITTSBURGH MINNEAPOLIS WORCESTER BUFFALO CLEVELAND MILWAUKEE



Mr. Knitter-Do You Realize Your Loss From Waste?

How often do your knitting machines stop because of slubs—heavy and light spots in the yarn?

Do you know the loss of production from this cause? Do you know the amount in dollars and cents—that is, lost in waste that is thrown under the cutter's table due to cutting out holes through the use of imperfect yarn?

Do you realize the difference in production between running good yarn and bad yarn? With labor high, even the same percentage of waste in manufacturing becomes a heavier charge against your costs. Are you taking the best means of meeting this situation?

The successful men in the production of knitted textiles are those who, under the pressure of high prices, make use of the most effective methods of avoiding waste in manufacturing operations.

A Knitter can cut down waste in his plant and increase his production by using the best grade of yarn—that is, free as possible from imperfections. If a lower grade contains even one more imperfection to the mile of 30/1, it means fourteen more imperfections to the pound—fourteen thousand more imperfections to the thousand pounds; one thousand pounds is a small quantity to the user of yarn. Fourteen more imperfections is a severe handicap in the manufacture of any product.

You can positively cut down the waste in production by equipping your winder with the Eclipse Yarn Cleaning Device. By using this cleaner, any grade of carded yarn can be made a ninety per cent better knitting yarn. You cannot appreciate this fact until after you have used the Eclipse Yarn Cleaner.

If you knit direct from cones, take this vital matter up with your "Spinner"—he can deliver you a better yarn.

Ask us to send you full information—or better still—we will send our representative to give you an actual demonstration upon your request. When you write, please mention the type of winder or spooler you use.

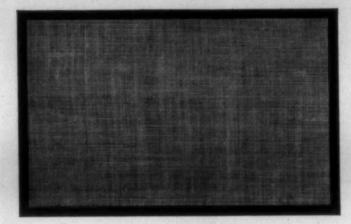
Eclipse Textile Devices, Inc. Elmira, N. Y.

Makers of

Automatic Yarn Cleaner, Automatic Stop Motion, Yarn Tension Device Eclipse Van Ness Dyeing Machine

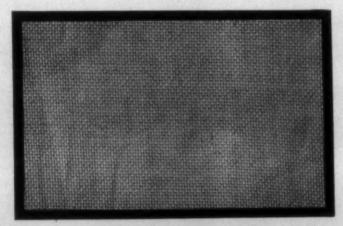
Imported Cotton Cloths

From Survey of United States Tariff Commission.



Sample No. 16.—Grey Cambric.

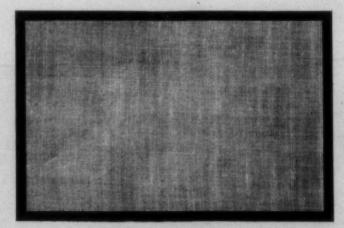
Plain woven. Grey width, 52½ inches.
93 ends and 83 picks per square inch, in the grey.
Warp yarn, 54s. Filling yarn, 64s.
Weight, 5.22 linear yards (7.61 square yards) per pound, in the grey.
Unbleached Unbleached.



Sample No. 17.-Matte Shirting

Plain basket weave. Finished width, 36 inches.
132 ends and 60 picks per square inch. finished.
Warp yarn, 84/2. Filling yarn, 41/2.
Weight, 3.72 linear yards (3.72 square yards) per pound,
finished.

Bleached and mercerized.



Sample No. 18.—Cambric.

Plain woven. Finished width, 36 inches. 95 ends and 68 picks per square inch, finished. Warp yarn, 66s. Filling yarn, 69s. Weight, 9.14 linear yards (9.14 square yards) per pound, finished.

MITHESON Chemicals



Saltville is located on the Norfolk & Western Railway, 37 miles from the line of the Southern Railway at Bristol, Va.-Tenn.

For all points in the South, freight differentials are overwhelmingly in our favor over any other plant manufacturing soda products.

A Southern Institution

TWO great factors in the rapid growth of the Textile Industry in the South have been favorable labor conditions and nearby sources of raw materials.

The only plant in the South manufacturing Soda products, our works at Saltville, Va., is the logical source of supply for Southern Textile Mills and may truly be called a Southern institution. During the twenty-nine years of its existence, this plant has saved Southern consumers millions of dollars in freight charges.

Let us serve you direct from the works in either carload or lessthan-carload quantities.

The MATHIESON ALKALI WORKS INC.
25 WEST 43 STREET NEW YORK CITY

PHILADELPHIA

CHICAGO

Deal Direct with

Bicarbonate of Soda Liquid Chlorine-Caustic Soda

the Manufacturer

Sesquicarbonate of Soda Bleaching Powder-Soda Ash



Mayview Manor

Blowing Rock, N. C.

"In The Heart of America's Alps"

SEASON FROM MAY 20th to NOVEMBER 1st

The Hightest Point on the **Blowing Rock Plateau**

At 4,500 elevation Mayview Manor commands sweeping panoramic views of Grandfather Mountain, Mount Mitchell, Table Rock Hawk's Bills, Clingman's Dome and the beautiful John's River Valley. The scenery is unsurpassed in America.

Azalea, Laurel and Rhododendron

Will be in bloom during the first month of the 1924 season which will insure an added interest and beauty to guests who arrive early in the season.

Amusements

Golf, Tennis, Riding, Motoring, Tramping, Trout Fishing, Swimming, Dancing, Trapshooting, Moving Pictures.

Resident physician. Dietitian. Telephone in each room. Cuisine unexcelled. 1924 season under management of

John J. Fitzgerald, of the Pinehurst organization

For Further Information Address

Mayview Manor, Blowing Rock, N. C.

Deterioration of Duck When Waterproofed

From a paper before meeting of American Society of Mechanical Engineers.

not be attributed to mildew or bac-terial decay has been observed in an investigation on the effects of continuous exposure to the weather been begun a month before the upon the water-resistance of treated granting of this patent, and they canvas. This occurred when drying were completed before the patent oils, which are commonly believed came to the authors' attention to "rot" canvas, were used, and also The straight waterproofing to to "rot" canvas, were used, and also The straight waterproofing treat-when the canvas had been treated ments included the four formulas with materials, ordinarily consider-recommended in Farmers' Bulletin with materials, ordinarily considered inert. Accordingly, a study was made of the effects which waterproofing materials have upon the tensile strength of cotton yarn when exposed to the weather. One of the most striking facts thus shown was that the addition of burnt umber to a drying oil treatment had a marked preservative effect upon the strength of the treated and exposed yarn. This suggested the possibility that pigments, when added to the waterproofing formulas developed in the laboratory, might reduce the inju-rious effects of the treatments upon the strength of cotton duck exposed to the weather. Further investigations were therefore started. Cotton duck was used, as the effects of treating materials upon yarn are not strictly applicable to woven fab-

In the investigations reported in Industrial and Engineering Chemistry particular attention was given to a comparison of two waterproof-ing treatments, which in previous tests had caused rapid deterioration of canvas, with treatments which were identical therewith except that they contained mineral pig-ments. Twenty-three pigments, in-cluding two asphalts, were used.

The effect of pigments in protecting fabrics from deterioration by sunlight has received some attention from previous investigators. In discussing the deterioration of doped aeroplane fabrics, Turner states that it was observed early in the late war "that where paint was used on the doped fabric, such as for identification circles on the wings, the fabric had not deteriorated nearly so much oughly stirred during application.
as at the unpainted parts." Turner, Four untreated sections and four however, did not present any comparative data. Furthermore, Per-rott and Plumb state that "as high as 20 per cent of carbon tends to preserve the fabric (rubber gas mask), especially when exposed to sunlight." This statement, however, was based on the performance of a single sample.

The use of pigments for protecting fabrics against the deteriorating effect of sunlight is covered, to some extent, in a patent granted to Gardner. In his specification the patentee states that he may "add to the ammonium phosphate solution (used to fireproof the fabric) from 2 to 10 per cent by weight of a pigment such as red iron oxide or carbon black, the purpose being to stop the black, the purpose being to stop the laid were laid hat on trestes, so light rays which affect the strength that the material would be exposed of the fabric." In this patent the to the rays of the sun throughout use of one or more coats of dope the day. At the end of six months containing, aluminium powder is (Continued on Page 34)

A DECIDED deterioration in the also specified, since, "due to the high strength of canvas which could light-reflecting surface of the fabnot be attributed to mildew or bac-ric, the cloth remains strong for a long period of time." The exposture tests here described, however, had

1157 (one slightly modified) and four of the 18 formulas used in the weather-exposure tests reported by Veitch and Jarrell, as well as several others developed in the laboratory. While they are called straight waterproofing treatments to distinguish them from those to which pigment was added, several of them-those containing asphalt or pitch-might be said to contain pigment, the asphalt and pitch having a tendency to color the fabric and shut out the light. Three commercial prepara-tions, none of which contained pigment, were used for comparison with the treatments developed in the laboratory. These commercial treatments were used in the condition in which they were received and according to the directions ac-companying them.

The solid treating materials were weighted out in the proper proportions, mixed, melted and poured into the solvent. When raw the solvent. When raw linseed oil, boiled linseed oil, or boiled linseed oil and pigment were used, no solvent was added. Pigment was added at the rate of 1 lb. to 1 gal. of the prepared solution.

Twelve-ounce, grey, United States standard army duck, cut from the same bolt into 15 in. by 28.5 in. sections, was used for all treatments. The treatments were applied with an ordinary 2.5 in. paint brush and to only one side of the canvas. All treatments containing beeswax or paraffin were warmed slightly just before they were applied to the canvas, and all solutions containing suspended matter were kept thor-

sections, to which one of the base treatments used in determining the effects of pigments, were used as controls.

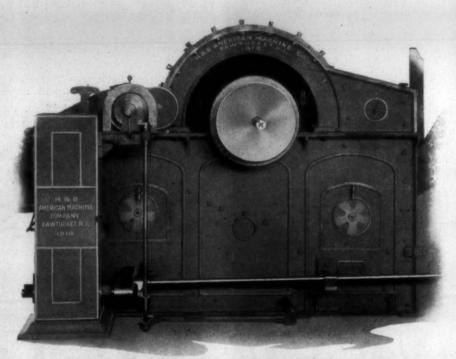
After applying the treatments and allowing them to dry, each section was cut crosswise into two pieces, one f6 in. wide and the other 12.5 in. wide. The narrower pieces were kept in the laboratory, while the wider ones were used in the exposure tests. The wider pieces securely attached to 12 in heards with their attached to 12 in. boards, with their edges on the under side, were exposed to the weather in the open country near Washington, D. C., continuously from May 15 to November 15, 1921. The boards on which the pieces of canvas were laid were laid flat on trestles, so that the material would be expected.

H. & B. AMERICAN MACHINE CO.

Pawtucket, R. I.

Builders of Complete Equipments of

Cotton Opening and Spinning Machinery



Buckley Opener with 41" Beater and Piano Pedal Evener

This machine is acknowledged to be the most efficient and productive Cotton Opener yet developed for the treatment of medium and long staple cottons.

The Cylinder is 41" diameter with Steel Blade Fingers arranged spirally across its entire width, which insures all cotton coming in direct contact with the Beater.

The cleaning surface of the Cylinder Section is so arranged that the cotton passes over three-fourths of the circumference of the Cylinder.

The front and lower portions of the Cylinder are surrounded by adjustable Grid Bars, which are so arranged as to form a gridded conducting channel for the cotton in its passage up to the first pair of Cages.

The Piano Pedal Evener Motion insures uniformity of laps.

Let us show you how to increase quality and production and reduce your costs. Write for full description of this machine.

Southern Office

814-816 ATLANTA TRUST CO. BLDG.

Atlanta, Georgia

Improved Opening Machinery

Continued from Page 8) a complete Buckley opener which embodies a number of new features. This opener is so designed that when used in connection with their No. 3 feeder and breaker lap machine, it insures a continuous feed of full width and produces laps that are exceedingly even in both unit area and total weight. The cylinder in this opener is 41 inches in diameter and the cotton is combed from the feed rolls by the blades of the cylinder, which are transposed so as to cover the whole width of the feed rolls in one revolution of the cylinder. The cotton is thrown by the centrifugal action of the cylinder, revolving at a high surface speed, against the bars and the impurities ejected by a suitable arrangement of the bars and their spacing and angle.

Three-quarters of the periphery of the cylinder is surrounded by bars, this being made possible by the upward stroke of the beater and the entire passage up to the cages is entirely composed of grid bars, an arrangement which gives a very large cleaning area. Suitable dampers are arranged to closely regulate the air currents, insuring a uniform deposit of cotton on the cages of the breaker.

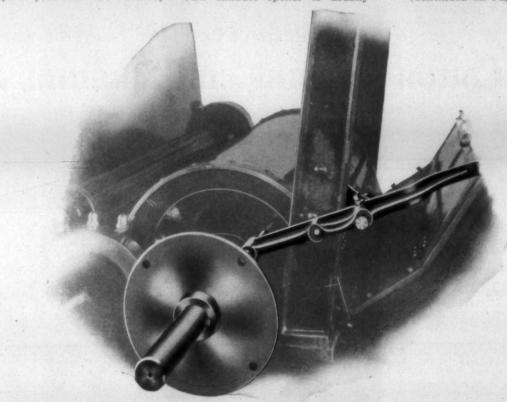
This new opener is fitted with a piano pedal link regulator or evener that accurately governs the cotton passing through the feed rolls of the Buckley opener by automati-

tons, because of its excellent clean- breaker lap machines. ing qualities and the regularity of . Exhaust Opener.
the laps it produces—the accuracy This exhaust opener is usually

cally controlling the initial source of which makes it practical to dis- supplied as a part of a unit comof supply in the hopper of the pense with the usual intermediate prising the exhaust opener, No. 3 feeder. This machine is recomprocess. The manufacturers can feeder, Buckley section — Breaker mended by the makers for all mills also furnish a double Buckley lapper, but it may be supplied sinusing medium and long staple cot- opener, combined with feeder and gly with or without a cage section.

characteristic features of

this exhaust opener consist of two (Continued on Page 28)



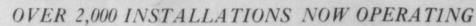
H. & B. Safety Beater Lock.

WE'VE GOT IT"

The Only Real, Reliable, absolutely fool proof, satisfactory "AUTOMATIC BUNCH BUILDER"

on the market

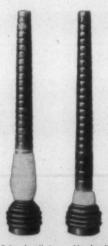
The "HOLCOMB" Automatic Bunch Builder is the result of years of development work by a practical mill man. It is fully perfected and has long been in successful operation in a score of mills. It is fool proof; has no wearing parts to get out of order; requires no oil; builds the bunch automatically only when the ring rail is lowered to doff; and requires absolutely no attention of the operator for setting or resetting. Remove the "personal element!" Remove the waste! Saves 80 per cent. Write now for our proposition.



In view of comprehensive patent protection granted any infringement will be vigorously prosecuted

Holcomb Bunch Builder Co.

Birmingham, Ala.



Holcomb Bunch

Our Guarantee

Death of Judge Walter Clark

JUDGE WALTER CLARK, Chief heavy amount of work falling upon Justice of North Carolina since the court during the past months. 1903 and one of the most famous. He was about Saturday, attending jurists in America, died at his home in Raleigh on Monday morning, May

Judge Clark was the father of Judge Clark was the father of David Clark, editor of the Southern Textile Bulletin. Three of his other sons are also very prominently connected with the textile industry. They are W. A. Graham Clark, textile expert of the Tariff Commission in Washington; John W. Clark, president of Randolph Mills, Franklinville N. C. and Thorne Clark linville, N. C., and Thorne Clark, president and treasurer of the Anderson Mills, Lincolnton, N. C.

The death of Judge Clark ends one of the most remarkable public careers in the history of North Carolina. At 14 he was a drill master of Confederate troops, at 17 he was a lieutenant colonel in the Confederate Army. In the practice of law during his early manhood he was a citizen of outstanding prominence. For 35 years he sat on the Supreme daily life and leaving his impress Army

His Illness Brief.

The Chief Justice had been bearing his share of an exceptionally

celebration in the county, although complaining that he was not feeling well. He arose Sunday morning and began to prepare for church, when forced to return to

rapidly grew He

in the history of North CaroAt 14 he was a drill master years old next August 19. He was ists and Republicans in the late 90s, nfederate troops, at 17 he was born in Halifax county, the son of although a Democratic nominee.

Itenant colonel in the ConfedDavid and Anna M. Thorne Clark. He was made Chief Justice Jan-As a boy he attended school at Horners and Graves Academy and Hillsboro Military Academy. In busy man, devoting himself zealous-1861, at the age of 14, he was one ly to the duties of his judicial office Court bench, 21 years as Chief Jus- of a group of cadets sent to Raleigh and finding time besides to engage tice, making his influence felt in at the request of the Governor to in study, work and writing, all departments of the State Gov- assist in drilling the recruits, then He annotated the "Code" ernment, in the varied walks of being enlisted in the Confederate Procedure," third edition; compiled

Northern or Southern armies.

Washington, graduated in 1867, and eon." in three volumes. obtained his license to practice in 1868, then a young man of 22.

In compiling the hist federate regiments, and the second s

til 1885, when he was elected Judge letters with his own hands. worse and of the Superior Court.

the night, he succumbed at 8 o'clock from the same county. In 1889 Home.

Monday morning. His sons and Governor Fowle appointed him to During the war, Judge Clark daughters were with him. He did the Supreme Court bench, and he served on the Federal War Labor not regain consciousness.

Entered Army at 14.

Entered Army at 14.

Entered Army at 14.

uary 1, 1902.

Judge Clark was an extremely years or more.

He annotated the "Code of Civil from 1894 to 1897; he was the au-

tered the University of North Caro- dure. He was a contributor to degree. In 1867 he was given the subjects. Perhaps Judge Clark's degree of A. M. and in 1868 became most conspicuous effort was his LL. D. from the University. He translation from the original French went to Columbia Law School, of "Constant's Memoirs of Napol-Weshington graduated in 1867.

In compiling the histories of Con-668, then a young man of 22.

On Bench Nearly 40 Years.

He was in active law practice un
Judge Clark wrote more than 10,000

The cause of the Confederacy was sciousness.

Clark was brought forward as a he was among those leading in memediately called to his bedside, trance of Daniel G. Fowle caused plot here and later made a talk to
Growing steadily weaker through him to withdraw, the two being the veterans at the Cold Called

> ers, the only Southern man among ists and Republicans in the late 90s, the seven members. He was also although a Democratic nominee. the only Southerner on the Board of Selection for the Hall of Fame. He had served on that board for 15

Judge Clark was married January 28, 1874, to Susan W. Graham, daughter of W. A. Graham, twice Governor of North Carolina, United States Senator and Secretary of the Navy. She died in 1909.

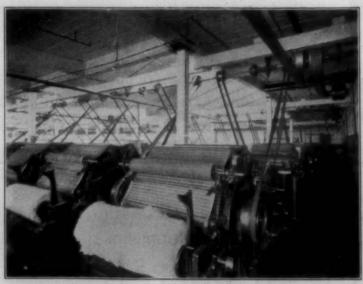
The following sons and daughters on the laws of the Nation. He was the himself enlisted, in spite of thor of "Histories of North Carolina survive: David Clark and Walter an author of national reputation, an his youth, and distinguished him-Regiments in the Civil War," five Clark, Jr., of Charlotte; W. A. Graauthority on legal and historical self in active service and at 17 was volumes, and he has issued all the ham Clark, Washington; John W. subjects.

His Illness Brief.

The Chief Justice had been bear-Northern or Southern armies.

The following sons and daughters from 1894 to 1897; he was the au-The following sons and daughters are the reprinted to reputation. He had been clark and Walter the volumes, and he has issued all the ham Clark, Washington; John W. promoted to lieutenant colonel, the reprints of North Carolina Supreme Clark, Franklinville; Thorne Clark, youngest officer of this rank in the Court with annotations. He edited Lincolnton; Mrs. J. E. Erwin, Morthe article on appeal and error in garton and Mrs. John A. MacLean. orthern or Southern armies. the article on appeal and error in ganton, and Mrs. John A. MacLean, After the close of the war he en- the Cyclopedia of Law and Proce- Greenwood, S. C.

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ALLIS-CHALMERS Type "AR" Squirrel Cage Motors fit into every requirement of the Textile Industry.

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Their steel frame construction makes for an extremely rugged motor.

Positive and efficient ventilation results in uniform temperatures, avoiding "hot spots" so deteriorating to insulation.

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District Offices in All Leading Cities.

Advantages of Better Mill Equipment

Articles Submitted in Prize Competition On This Subject.

competition for the prizes.

The articles submitted are unusually good and bring out marty characteristics the sale of their logical arguments for the use of products is insured. better mill equipment. They will The Northern manufacturers will be published from week to week attain the lead in this industrial until all have appeared.

Number Eight

To prove the necessity of better equipment in the cotton mills of Dixie, we must first consider the present outstanding facts concerning the industry of cotton manufacture in the United States.

The industry is rapidly moving towards the cotton fields. This fact is evident, it is proven by the producers must take in order to cy. growth of the number of Southern rival this competition and event- out cotton spindles as well as by the growth in the consumption of cotton in the Southern States. But New England will not stand idle and mills. witness her hold on this, her historical and home industry, utterly taken from her without offering some effectual resistance. Recent discussions in the legislative bodies ing a market for their products. Massachusetts and other New England States have proven that mills have been exceedingly slow to finished and unrivaled by the prod-pickers. Reeve drive for lifting the Northerners are aware of the realize that yearly science renders ucts of any other section of the aprons on bale breaker. Automatic apparent deterioration in their in-accessible to the textile industry world, but that it is a truth that the distributors feeding hoppers of F. 5

Contest Closes.

tion. It will be as keen as any com- in the process from the opening of petition in the business of today, the raw stock through the shipping Competition means excelling quality of the finished product.

The contest for the best articles Competition means excelling quality of the finished product.

The contest for the best articles competition means excelling quality of the finished product.

To enumerate some of the letter than the contest for their labor. they may have to pay more for the and hardly worth while. We can transportation of their raw mate- by referring to the leading textile rials, but with the above mentioned

> The Northern manufacturers will the products themselves. attain the lead in this industrial There there is for our considera-competition by applying to their tion the "Safety First" feature mills new and efficient methods and which has received so wide atten-They will spare no exproduce the highest They clearly realize that the expense involved is only temporary and on account of their increased and on account of their increased tecting the employee against injury quality and hence sales, in the long from carelessness or thoughtlessrun there will by no additional ex- ness pense

> must have better equipment in their mills. They must adopt new and ern ones they must be of superior improved methods of manufacture. quality gained by efficiency. They must produce textiles of ex-

hundreds of developments that tend future will soon prove. New, better Then what will be their method to improve quality as well as effi- and efficient equipment is the cerof defense? The answer is evident, ciency in manufacturing. These tain guide to this achievement. It is only one word. It is competi- improvements apply to every step

journals acquaint ourselves with the names of the manufacturers

tion in the past few years. Modern pense in equipping their plants with machinery is far more safe in the the latest improvements and thereby mill as far as the operative is conof quality, cerned than old machinery. machines are equipped with the latest methods of guarding and pro-

Then the by-word of the Southern Then the steps that the Southern manufacturer should be "Efficien-Efficiency is impossible withrival this competition and event- out efficient equipment. This means ually gain the supremacy in the new and well kept machinery. It trade are clearly defined. They means that in order that the Southern products may rival the North-

Now, in conclusion, let us all hope g a market for their products. of cotton industry from the sowing A large number of the Southern of the seed to the sale of the goods,

"GEORGIA CRACKER."

Number Nine

Better equipment means almost a of these would be long and tedious new set of machinery to some mills, while to others it means more ma chines for some of its departments, so high speed can be avoided.

Writing of better equipment is these improvements as well as with hard to do without naming your favorite make of machinery.

> I am going to write of a mill I feature know of, that if it was my mill I wouldn't swap it for any other mill I know of. This mill is below the Mason and Dixon line. I have seen quite a few mills in New England and many in the South, but this one has them all beat. It is of the latest design in every respect. A steel structure with saw tooth roof, and affords plenty of light. The floor is of hardwood and plenty of floor space in each department. It is equipped with the latest and best machinery money can buy. All the machines are motor driven except the cards and they have a counter shaft for every fifteen cards. shaft is equipped with bail bearings all power is transmitted from motor to shaft with chain belt.

The picker and opener equipment celling quality, hence gaining the that it is not only the dream of the is of the very latest, such as bate buyer's admiration and thereby fix- idealist that Dixie will be the home breakers, vertical openers in tandem with adjustable grids in vertical openers, breakers and finisher pickers. Reeve drive for lifting feeders, F. 5 feeders delivering tv.o a two-beater breaker with 40-inch and 20-inch beater, breakers are

(Continued on Page 26)

VICTOR MILL STARCH - The Weaver's Friend



It boils thin, penetrates the warps and carries the weight into cloth. It means good running work, satisfied help and one hundred per cent production.

We are in a position now to offer prompt shipments.

THE KEEVER STARCH COMPANY

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C. B. ILER, Greenville, S. C.

L. J. GASTILE, Charlotte, N. C.

Georgia Mill Men Meet

dent of the Cotton Manufacturers' and will cause only injury to the Association of Georgia at the taxpayers." twenty-fourth annual meeting of Another resolution adopted dethe association held at the East clared that it is the fixed judgment Lake Country Club. The meeting of the association that "the prowas the most largely attended and posed Federal tax upon undistrib-

Other officers elected at the business session were as follows:

S. Y. Austin, of LaGrange, vicepresident; T. J. Callaway, secretary of the Milstead Manufacturing Company, Milstead, treasurer; W. M. McLaurine, Atlanta, secretary, and C. W. Chears, Atlanta, traffic manager. Board of directors: Clifford and development of the South." J. Swift, vice-president of the Swift Spinning Mills, Columbus; L. L. Jones, Ashley Jewell, Chickamauga; Harrison Hightower, secretary, Thomaston Cotton Mills, Thomas-ton; W. D. Anderson, Allen Little and D. W. Anderson, manager of the Pacolet Mills, New Holland.

Resolutions.

The association adopted a resolua special committee to investigate
tion that "it is the judgment of the fully the various schemes now
of Georgia that the proposed Fedwas toastmaster.

Eve

Eve

B. S. Walker, of Monroe, and faCotton Manufacturers' Association pending in Washington to lease ther of the Governor, and who
of Georgia that the proposed Fedwas toastmaster.

Eve

Eve

Honroe, and faB. S. Walker, of Monroe, and facotton Manufacturers' Association pending in Washington to lease ther of the Governor, and who
of Georgia that the proposed Fedwork association from 1900 to 1904, reJ. O. Edwards
wiewed the early struggles of the W. W. Hinson
violates the promises upon which late R. C. Freeman, J. D. Massey, of association, declaring that the acGeo. Dearman

one of the most constructive ever uted earnings, disregarding as it held by the association. corporations existing from time to time, conflicting with a policy which has served to build up the South, is unsound, unfair and unwise, and that such a fax will not only be destructive of the best interests of these United States, but especially and directly will prevent the growth. was further resolved that copies of the resolution be placed in the hands of each Senator and Representative in Congress from Georgia, and that the officers be directed to take diligent and persistent steps to prevent the facts and prevent the enactment of such a tax as is proposed, or any similar tax."

The association voted to appoint

Golf Tournament.

J. S. Bachman, Sr., and J. C. Bachgold team trophy. J. L. Robinson and Grady Kennington, of LaGrange. were awarded the runner-up trophy individual low score by Harold Callaway, of LaGrange, and the runner-up was won by R. E. Hightower, of Thomaston. The foursome prize was won by Lee M. Jordan and George S. Harris, of Atlanta, Fred Gordon and E. P. Dismuke, of Columbus. Awards were made by W. L. Roberts, who had charge of the athletic arrangements.

A feature of the banquet was the special table arranged at which eight of the ten living ex-presidents of the association were present, including Governor Walker and A. W. Cozart, of Columbus, the principal speakers of the evening. Frederick B. Gordon, president of the Columbus Manufacturing Company and former president of the association, was toastmaster.

Atlanta, May 14.—George S. Harris, the passage of income tax laws were Columbus; C. H. Williamson, of Macomplishments and deeds won in president of the Exposition Cotton secured; is an unwarranted invasion con, and J. D. Hammett, of Anderthose days still live and today furnish of Atlanta, was elected presi- of the Cotton Members present generation of textile men are standing.

Jeff Davis, of Toccoa, president man, Jr., of Rome, were awarded the from 1908 to 1910, declared that the bottom of the present business de-pression has been struck and that an upward rebound is near.

W. J. Vereen, vice-president of the Moultrie Cotton Mills, and pre dent of the association in 1917-1918; J. A. Mandeville, of Carrollton, pres-J. A. Mandeville, of Carrollton, president in 1920-1921; Cason J. Callaway, of LaGrange, president in 1921-1922; Lee M. Jordan, president in 1922-1923, and P. E. Glenn, president in 1923-1924, also were introduced and made brief remarks.

Governor Walker in his address traced the history of this country. Georgia is coming into her own through a program of better schools, roads and health," he declared. "I have never been a pessimist, and cannot be when I see such great signs of optimism about us."

Everett Mills.

Monroe, N. C.

Asst. Supt. Night Supt.

Howard Bros. Mfg. Co.

ESTABLISHED 1866

Home Office and Factory, Worcester, Mass.

Southern Branch Factory Southern Branch Office E. M. TERRYBERRY, Southern Agent 121 South Forsyth St., Atlanta, Ga. 1126 Healey Bldg., Atlanta, Ga. G. L. MELCHOR, Asst.

Cylinder and Doffer Fillets Napper Clothing Stripper and Burnisher Fillets Emery Fillets

Top Flats and Lickerins Recovered and Promptly Returned

Tempered Steel Twin and Domestic Iron Wire Heddles The Best Materials Obtainable Make Up Our Products

Give us a trial on Cylinder and Doffer Fillets. This will satisfy you as to the merits of our Card Clothing.

Attractive Mill Grounds Induce More and Better Work

Do you and your employees point with pride to the well planted, carefully kept grounds about the mill?

Do you realize that the daily inspiration of beautiful surroundings makes happier, more contented people, who will turn out more and better work?

Our Complete Landscape Service will Transform Mill Grounds

The great variety of trees, shrubs, and vines available for southern conditions will insure attractive, colorful surroundings during the entire year. There will be flowering shrubs from earliest spring till fall, followed in winter by showy berries, brilliant colored twigs, or luxuriant evergreen foliage.

Write or telephone us about it. We will send a representative to get your viewpoint and make suggestions.

The Howard-Hickory Company

Nurserymen—Landscape Gardeners

Hickory, North Carotina

Weaver's Meeting In Spartanburg

vision of the Southern Textile Association, held last Friday at the Clark, David, Editor, Southern Tex-Chamber of Commerce in Spartan- tile Bulletin, Charlotte, N. C. burg, S. C., was one of the most successful sectional meetings the association has ever held. The attendance was large and many interesting problems of the weavers were discussed at the meeting. Almost the entire session was devoted to a discussion of sizing and the relative value of various methods and materials.

The meeting was presided over by W. H. Gibson, Jr., of Union, S. C., chairman of the Weavers' Division.

of the Corn Products Refining Com-pany, of New York, and Paul Seydel, DeHart, F. D., O-Weaving, Rhode of the Seydel-Thomas Company, At-lanta, Ga., were two experts who Digby, T. J., Supt., Oakland Cotton were brought to the meeting to discuss technical and chemical phases of the subjects under consideration.

The meeting consisted of two sessions, one in the morning and one in the afternoon. splendid luncheon was served in the Franklin Hotel, musical entertainment being furnished through the courtesy of C. C. Clark, C. D. Maigatter and the Montgomery-Crawford Company.

David Clark, editor of the Southern Textile Bulletin, attended the Weavers' Meeting, but was prevented from writing his account of the technical discussions by the death of his father.

Among Those Present.

Among those who attended the

meeting were: Arwood, T. W., O-Weaving, Carolina Cotton & Woolen Mills, Draper,

Baker, J. H., Cloth Room Overseer, Hartwell Mills, Hartwell, Ga. Batson, Louis P., Sou. Rep., Sham-

bow Shuttle Co., Greenville, Bishop, O. E., O-Weaving, Clifton Mfg. Co., Converse, S. C.

Black, Walton, Salesman, Stein, Hall & Co., Inc., Greenville, S. C. Bolt, A. D., Weaver, Mills Mill, Greenville, S. C.

Britton, W. J.
Buice, J. D., Supt., Chadwick-Hoskins Co., Pineville, N. C.

Burnham, B. K., Supt., Whitney Mfg. Co., Whitney, S. C. Callat, Claude, Spinner, Courtenay

Mfg. Co., Newry, S. C.
Cantrell, E. L., O-Weaving, Alexander Mfg. Co., Forest City, N. C.
Cantrell, F. Y., O-Weaving, Cliffside Mills

Carter, A. B., Gastonia, N. C. Carter, G. N., Dover, N. H.

Carter, H. T., Salesman, Blockwood Coal & Coke Co., Spartanburg,

Casey, O. R., O-Weaving, Inman Mills, Inman, S. C.

Castleberry, Asst. Supt., Baldwin Mills, Chester, S. C. Cathcart, Dr. W. R., Technical Director, Corn Products Refining Co.,

17 Pattery Place, New York City. Chapman, Jas. A., Jr., Vice-Pres. and Supt., Inman Mills, Inman, S. C. Cilley, John, Jr., Designer, Brookford Mill Co., Hickory, N. C.

The meeting of the Weavers' Di- Clark, C. C., Salesman, Spartanburg,

Cobb, W. W., Supt., Norris Cotton Mills Co., Cateechee, S. C.

Copeland, J. R., O-Weaving, Judson Mill, Greenville, S. C. Cranford, H. C., O-Weaving, Jackson

Mill No. 2, Wellford, S. C.

Mill No. 2, Wellford, S. C.
Cromer, J. L., Andrews Loom Reed
& Harness Works, Tryon, N. C.
Crow, D. J., Weaver, Easley Mill No.
3, Liberty, S. C.
Curry, L. T., General Overseer, Lan-

caster Cotton Mills, Lancaster. W. R. Cathcart, technical director Dean, Geo. A., Sou. Mgr., A. E. Sta-

Mills, Newberry, S. C.

Digby, T. J., Jr., Salesman, Balti-more Belting Co., Greer, S. C. Ellis, T. L., O-Weaving, Carolina Cotton & Woolen Mills, Draper,

Escott, G. S., Associate Mgr., Amer-

ican Wool & Cotton Reporter, Boston, Mass. Failor, Walter M., Charlotte, N. C.

File, H., Chemist, A. E. Staley Mfg. Co., Decatur, Ill. Franks, E. A., Supt., Drayton Mills,

Spartanburg, S. C.
Frye, G. V., Night Supt., Florence
Mills, Forest City, N. C.
Gibson, L. B., Supt., Fairmont. S. C.
Gibson, W. H., Jr., Supt., Union-

Buffalo Mills Co., Union, S. C. Greer, W. W., Salesman, Seydel Chemical Co., 733 Augusta St., Greenville, S. C.

Gregory, W. L., O-Weaving, D. E. Converse Co., Glendale, S. C.

Grimes, M. A., Anderson, S. C. Hall, John P., Weaver, Monarch Mills, Lockhart, S. C.

Harris, Carl R., Asst. Supt., Inman Mills, Inman, S. C. Harris, Jack, Salesman, Holyoke

Belting Co., Spartanburg, S. C. Haskins, L. L., Distributor, E. F. Houghton & Co., Greenville, S. C. Hawkins, D. E., Second Hand, Haynes Mill, Avondale, N. C

Hunt, A. F., Supt., Marion Mfg. Co., Marion, N. C.

Hyder, J. J., O-Weaving, Lanett Mills, Lanett, Ala.

Jackson, D. G., O-Weaving, Limestone Mill, Gaffney, S. C.

Jackson, F. C. N., Salesman, Providence Drysalters Co., Providence, R. I.

(Haynes Plant, Avondale, James, J. M., O-Weaving, Chadwick-

Hoskins Co., Pineville, N. C. Kay, P. A., Weaver, Easley Mill No. 2, Liberty, S. C. Lackey, L. S., Supt., Easley Mill No.

2, Liberty, S. C. Laughlin, Jas. B., Cloth Room Overseer, Beaumont Mfg. Co., Spartanburg, S. C.

Laurence, S. B., O-Weaving, Gluck Mills, Anderson, S. C. League. D. W., O-Weaving, F. W. Poe Mfg. Co., Greenville, S. C.

LeClair, E., Salesman, Atlanta Harness & Reed Mfg. Co., Atlanta, Ga. Leister, W. P., Supt., Victor-Mona-ghan Co., Walhalla, S. C.

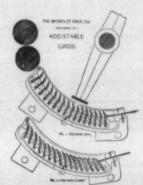
(Continued on Page 26)

Importance of Grid Bars in Cleaning Cotton

American mills for the last few ment for this purpose

the Brown-St.-Onge Co., Providence combined in one article.
R. I., have specialized in the manu-. The wide space between each bar, facture of grid bars and have been which is adjustable to each partic of mills and have proven very effi- your mill. cient in cleaning cotton.

Among the most vital parts of all prove the whole plant, machines that are used for handling With the condition of the cotton as it comes from the bale market and the actual shortage in are the grid bars. All these machines have grid bars, and while they



Brown-St. Onge Grid Bar.

not develop at the carding process, than if the grid bars had thoroughly taken care of it.

that the stricking blow will separ- growing section ate the motes from the good cotton Antonio Express. and shake out the dirt.

The Brown St.-Onge Company, in developing their grid bars, have construsted them on the principle that break the motes up. If the blow does Pomerene export law will be pre-

ed at just the right angle together States Department of Commerce, with the "Adjustable" feature of according to an announcement made this grid bar in the work of the grid by Roy A. Cheney, executive secrebars makes for great efficiency.

As we all know, the larger the years have begun to realize more opening the more dirt will fall out fully the importance of opening and and pass thru. Many grid bars may cleaning cotton and the manufact- have the first requisite; good strikurers of opening and cleaning mach- ing position, but the second is hardinery have devoted a great deal of er to find. In the Brown St.-Onge time and effort to improve the equip- grid bars there is combined both of these requisites and it was only To increase the efficiency of the through years of experimenting and machines that open and clean cotton, actual operation that they were

very successful in making and mar- ular mill, will allow all the dirt keting the Brown St.-Onge grid bar. possible to be taken out. This in They are in use in a large number turn means less fly and sweeping in

The picker loom is the foundation As cotton comes to the mill, it is of good work in all the mills, it be-filled with dirt and motes. In order ing the start from which the finto clean cotton and good running ished goods derive their appearance work, it is absolutely necessary to and quality. Anything that tends to get rid of the dirt and motes.

With the condition of the cotton view, it becomes the duty of us all to see that what we have shall be are a very inconspicous part of the utilized to its fullest capacity and that waste in all ways be done away with, as far as possible and yet maintaining quality.

The Texas Dollar

According to official statistics furnished by the United States Department of Agriculture, here's how the money added annually to the world's wealth by the cotton crop of Southwest Texas is "split:" To the farmer, 189 cents out of a dollar; to the railroads for transportation, 1.1 cents; the farmer pays for the ginning out of his 18.9 cents and the railroads pay compressing charges The factors, commission men, job-equipment, if they do not operate bers and retailers get the 79.95 efficiently and constantly, there will cents that remain. North Carolina, be trouble with the cotton in each a few years ago the poorest State in succeeding process through the mill. the Union, is now one of the wealth-If trouble from cotton caused by iest. The reason? Building of hunimperfect action of the grids does dreds of cotton mills. Asininity sounds bad and may look worse. it will show up in other departments But it's the only term that applies and in the long run it will cost more squarely to a situation that, for a squarely to a situation that, for a century, has permitted New England to use a product of the South for The grid bars, do all that they are New England's benefit and at the intended to do, should be construct- South's loss. Southwest Texas ed so that they will be in proper should be more concerned than any position in relation to the beater, so other part of the greatest cotton that the stricking blow will separ-growing section of the earth.—San

Commerce Department to Urge Export Combination.

A strong argument in favor of the this striking blow must never be organization of a combination for delivered in such a manner as to export purposes under the Webbbreak the motes, it will result sented to the Associated Knit Unvery serious defect that seriously derwear Manufacturers of America evry serious defect that seriously in convention at the Hotel Trayhurts the sale of the cloth. With grid bars made so as to altives of the Bureau of Foreign and low this striking blow to be deliver- Domestic Commerce of the United tary of the knitters' organization.

A Dangerous Competitor—FIRE

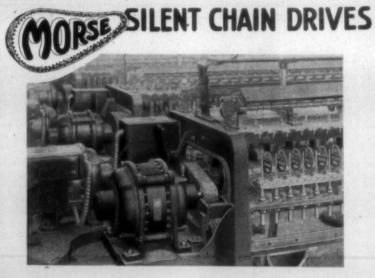
Fire insurance adjustments will recoup your losses, but cannot help you fulfill contracts or replace profits that you didn't make.

Over 70% of the cotton spindles of the United States and Canada are insured in the New England Factory Mutual Insurance Companies. To be able to say that your factory complies with the standards set by these companies, goes a long way in convincing your customers and your bank that you will be able to fulfill your contracts as to delivery dates.

> For the purpose of furnishing better service to our present and prospective members, we have located a representative in the South. Write him today for full information.

Firemen's Mutual Insurance Company

G. H. STEUART, Southern Representative 2123 Greenway Street Charlotte, N. C.



Maximum Transmission of Power With "The Morse"

Morse Silent Chain Drives give you the full benefit of the power developed by your motors. They insure maximum production by transmitting 98.6% of the motor's power to

Morse Chain Company

Ithaca, N. Y.

CHARLOTTE

BOSTON

There is a Morse Engineer near you

XTILE BULLET

Published Every Thursday by CLARK PUBLISHING COMPANY Offices: 39-41 S. Church St., Charlotte, N. C.

THURSDAY, MAY 22, 1924.

Managing Editor
Associate Editor
Business Manager DAVID CLARK D. H. HILL, JR. JUNIUS M. SMITH SUBSCRIPTION year, payable in advance.... er Countries in Postal Union gie Copies....

Contributions on subjects pertaining to cotton, its manufacture and distribution, re requested. Contributed articles do not necessarily reflect the opinion of the ublishers. Items pertaining to new mills, extensions, etc., are solicited.

Advertising rates furnished upon application.
Address all communications and make all drafts, checks and money orders payable to Clark Publishing Company, Charlotte, N. C.

Clark

DAVID CLARK was called to Ral-Supreme Court of North Carolina.

As Judge Clark passed away Mon- types of opening equipment. day morning and the funeral followed on Tuesday, David Clar did not return to Charlotte before the

Profits Will Increase By **Efficiently Opening** Cotton

discussion of the advantages of ment in favor of improved opening using modern machinery in the various process of cotton manufac-ture. The subject featured this week, in both the special advertising and reading articles, is improved opening equipment. It is a subject of extreme importance to all Southern mills and deserves their most careful consideration.

English mills have for many years paid more attention to the opening of cotton than American mills and because of this have been able to produce yarns and goods of better quality than American mills pro-

turer knows that no mill is better very heavy demand for yarns and than its opening equipment. The goods later on.

Death of Father of David in the preparatory processes. The quality of the production hinges upon the question of whether or not the cotton was thoroughly opened and cleaned before going eigh, N. C., Sunday afternoon by cards. The advantages of light card- his letter herewith: the sudden illness of his father, ing, now so well recognized, are "In the Southern Textile Bulletin Walter Clark, Chief Justice of the posible only in the mill that uses of the 8th we note with interest the

Many Southern mills have years struggled along with inadepublication of this issue.

Quate opening facilities. Many of "In the first article we note you 800,000 yards. A large part of this them are still trying to force the state: 'The curtailment of the mills is a competitor of our cotton goods. We offer this explanation of the cards to clean the cotton. This in the United States is now upon a Our own mill; for instance, was fact that we are not carrying full mistake not only makes them use a basis of 6,000,000 pounds per month equipped as were many of the cotton. reports of the meetings of the Cot- higher grade of cotton than should ton Manufacturers' Association of be necessary, but results in exces-Georgia and the Weavers' Division sive waste, poor running work and of the Southern Textile Association, an inferior quality of output. The both of which were attended by Mr. function of the cards is entirely Clark last week. His accounts of separate from that of the opening the meetings had not been written equipment and to try to make them prior to his being called to Raleigh. do this work is not only poor manufacturing practice, but false economy as well.

The Southern Textile Association, through its Carders' Division, has made a close study of opening and THE Better Equipment Campaign at the various meetings of the Cardthis week begins the technical ers has proved a very strong arguequipment.

> The machinery manufacturers, in recent years, have developed their "When we fully realize that 20,-opening machinery to a very high 000,000 yards of goods, made by degree of efficiency. The results cheap foreign labor, are being imthese machines produce are incom-parably better than the work of the earlier and cruder types of equip-

Although we are now in the midst of a very severe period of depression, the experience of previous years teaches us that such times are always followed by periods of mark duced from cotton of the same ed activity. Market conditions, while extremely poor, are shaping themselves in a manner that indicates a

exceedingly scarce when normal operations are resumed. Prices may expected to economical use of the cotton it consumes will enjoy a decided advantage when the buying movement develops.

the advisability of installing automatic looms, Southern mills adopted them and now New England is paying for the folly of trying to do National Association of Cotton Manbusiness with antiquated machin-

The Southern mill that neglects to modernize its opening equipment is throwing away its chances to meet the competition of the future.

Sees Need of Higher Tariff

IN a letter to the Southern Textile Bulletin, J. C. F. Clark, president of Company, Augusta, Ga., stresses the to a buyer's strike or something else need of a higher tariff on cotton and let it go at that. goods and brings out some very interesting points relative to the present textile situation. On account of but, if it cannot be made so and if the general interest in this phase of

entitled 'For Profits-Which Way Would You Plow Today,' and 'English Mill Got the Order.

last year. Such a shrinkage in the years made heavy goods, but for the output of cotton goods is rapidly past few years the buyers of some creating a vacuum and when buyers finally enter the market they over to the use of burlap. This has will find a shortage."

"Enclosed we are sending you a page from the New York Commercial, under date of the 2nd, from which you will note statement as follows: 'British Cloth Dumping Forces U. S. Mills to Close,' 'New England Mill Men Seek Flexible Tariff Action to Stop General Curtailment,' 'How British Cloth Dump-Menaces American ing 'Imports Averaging 20,000,000 Yards Month Compared with 4,000,000 in 1919.

ported monthly it is hard to believe that there will come a demand for our goods even with the curtailed production of 6,000,000 pounds a month, but we sincerely trust that will come, for it is badly needed, in the mill business. It looks to us like the importation of cotton goods is going to become even greater un- ern Wholesale Dry Goods Associa-less something is done to steam the tion; Curtis Dight Wilbur, Secretary bales of cotton have already, up to of Clemson College, and Henry Mace this time, been exported this year, Payne, consulting engineer of the which is 200,000 bales more than the which is 200,000 bales more than the American Mining Congress.
total exports for last year, and if A full report of the meeting will successful handling of the stock in In the face of the present cotton total exports for last year, and if A full report of the meeting will every department of the mill de-shortage, the matter of properly Europe continues to recover the be carried in these columns next pends upon the treatment it receives opening and cleaning cotton be-exports will undoubtedly continue week.

comes an economic as well as a to grow and this cotton will be manmanufacturing problem. Good cot-ufactured into cloth, by the cheap ton is hard to get now and will be foreign labor, and accordingly that much more cloth will enter country than is now coming in.

logically expected to be much "We understand that the tariff higher. The mill that is properly was reduced during President Wilequipped to make the best and most son's administration. probably when son's administration. probably when European production was low and we were not fearful of imports, and that the tariff has never been restored to the old basis, in spite of While New England mills debated the fact that European conditions are improving and their industries becoming a menace to ours.

> We are glad to note that the ufacturers have taken cognizance of the matter and that the Republicans seem to be trying to do something towards raising the tariff and regret that the Democrats seem to be opposing same.

"Now that the South has become a great textile country and our industry threatened, it seems to us that we should take steps to rectify the present condition of affairs and the Sutherland Manufacturing not be satisfied to say that it is due

"We believe that the tariff should be a local and not a political issue general interest in this phase of we cannot have a tariff plank in situation, we are reproducing our platform, then we had better change our politics, as a matter of self-protection.

"In addition to the enormous the most modern and approved two articles on the editorial page quantities of goods coming into this country, we received in 1922 850,-000,000 yards of burlap, last year 1,000,000,000 yards—last month the of our coarse fabrics have changed caused us to go on to finer goods, which puts us in competition with those mills that were already on these finer goods. Our mill alone does not cut much figure, but the total of the other mills that have changed over, as we have done, amounts to something."

American Cotton Manufacturers' Convention

DLANS are virtually complete for the twenty-eighth annual convention of the American Cotton Manufacturers' Association, to be held at Atlantic City May 27 and 28. Headquarters for the meeting will be at Hotel Traymore. Hotel reservations indicate that the attendance will be unusually large.

A program of unusual interest has conditions are indeed deplorable been prepared for the meeting the mill business. It looks to us Among the speakers will be Norman H. Johnson, secretary of the South-

Personal News

W. T. Garner has been appointed overseer weaving at the Peerless Mills, Thomaston, Ga.

B. C. Roberts has accepted a posi-

overseer of spinning at the Washington Mills, Tenille, Ga.

Andrew Greer has been appointed overseer carding at the Georgia-Kincaid Mill No. 5, Griffin, Ga.

Griffin, Ga.

V. J. Deas has resigned as over-seer weaving at the Griffin Manuseer weaving at the Griffin Manu-facturing Company, Griffin, Ga., and son, W. E. Harvell, Jr., one brother accepted a similar position with the and one sister. Canton Cotton Mills, Canton, Ga.

E. W. Mayfield has been promoted from second hand in No. 1 weaving A. C. Canterberry, overseer spin-to overseer weaving at the Griffin ning at the Eva Jane Mills, Syla-Manufacturing Company, Griffin,

night overseer spinning at the seer spinning at the Eva Jane Mills ville, N. C. and returned to the seer spinning at the seer spinning at the Eva Jane Mills ville, N. C. and returned to the seer spinning at the seer spinning at the Eva Jane Mills ville, N. C. and returned to the seer spinning at the seer spinning at the Eva Jane Mills ville, N. C. and returned to the seer spinning at the seer spinning at the Eva Jane Mills ville, N. C. and returned to the seer spinning at the seer spinning at the Eva Jane Mills ville, N. C. and returned to the seer spinning at the seer spinning at the seer spinning at the Eva Jane Mills ville, N. C. and returned to the seer spinning at the Eva Jane Mills ville, N. C. and returned to the seer spinning at the seer spinning

William Hinchcliffe, who has been superintendent of the mills of the daughter and four sons, all of whom Dallas Manufacturing Company, of live in Sylacauga except one. Dallas Manufacturing Company, of live in Sylacauga except one.

Huntsville, Ala. for the past 25
years, has risk been and will retire taken an active part in civic activito his Florida home.

J. A. Thompson, formerly overseer of spinning at the Fulton Bag and Cotton Mills, but more recently spinner at the Bradley Manufacturing Company, Columbus, Ga., has been appointed overseer spinning spooling and warping at the Canton Cotton Mills No. 1, Canton, Ga.

time to the textile industry and who the Census Bureau's monthly spin-was formerly night overseer in the spinning department at the Perkins shows. Active spindle hours were Hosiery Mills at Columbus, Ga., has two billion below those of a year accepted a position with the Wright ago. Electric Company, of Birmingham, Ala., as chief electrician.

Fuse Manufacturing Co.

A. E. Treganze, formerly sales manager of Economy Fuse Manufacturing Company, Chicago, has re- 30 facturing Company, Chicago, has re- 30 numbered 37,745,967, of which cently gone with the Chicago Fuse 31,871,665 were operated at some Manufacturing Company, also of time during the month, compared Chicago, as assistant to the president in charge of commercial rela-March, this year, and 37,287,265 and

Obituary

W. E. Harvell.

W. E. Harvell, superintendent of tion with the Aldora Mills, Barnesville, Ga.

Wm. H. Snow has been appointed when the Southern repair shops of the Saco-Lowell Shops, of Charlotte, died Tuesday night at the home of his sister in Charlotte after an illness of only a few days. Heart trouble was the cause of his death.

Mr. Harvell had a long and hon-orable record of service with the Saco-Lowell Shops, having been in their employ for 22 years. He had John Rawls has been promoted to a very wide acquaintance with mill second hand in No. 1 weaving at the men and was considered an author-Griffin Manufacturing Company, ity upon textile machinery. He had for years been prominent in Charlotte fraternal circles and was buried with Masonic honors.

A. C. Canterberry.

cauga, Ala., died last Sunday afternoon at his home, having been stricken with paralysis.

ville, N. C., and returned to his from Meridian, Miss., where he was home in Whitmire, S. C. superintendent of the Alder Veri superintendent of the Alden Knitting Mills.

He is survived by his widow, one

ties and was one of the best known citizens of his town. He was espe-cially interested in boys' work and helped organize the Boy Scouts in his section.

Spindle Hours Show Drop

Washington, May 21.-Cotton spin-Barney T. Hudson, who has for than during March and showed a the past 18 years devoted his entire heavy decline from April a year ago,

Active spindle hours for April numbered 6,769,711,331, or an average of 179 per spindle in place, com-A. E. Treganza Now With Chicago pared with 7,072,965,369, or an average of 187 for March this year, and 8,787,443,897, or an average of 236, for April, last year.

Spinning spindles in place April 35,515,791 in April, last year.

The average number of spindles Address Wanted.

operated during April was 30,177,

The address of G. M. Loggins, last 468, or at 79.9 per cent capacity on heard of at Cramerton, N. C., is a single shift basis, compared with wanted by C. C. Stacy, of Gaffney, 31,125,530, or at 82.4 per cent capacity in March, this S. C., who will appreciate it if any- ity, in March, this year, and 40,759, one can give him Mr. Loggins' ad- 979, or at 109.3 per cent capacity, in April, last year.

Cotton-Bleachers

Your requirements are: Strength and Durability, Softness and Elasticity, A Permanent White, Saving Weight and Yardage, Fool-proofness, Low Cost, Absence of Poison-gases.

You do not get them all unless you bleach with the Solozone Process.

The Roessler & Hasslacher Chemical Co. 709 Sixth Ave. NEW YORK CITY

Improved Loom Harness

Mill after mill on print cloths, sheetings, drills, colored goods, denims, as well as on all classes of fancy weaves in cotton, silk and worsted goods, is equipping looms with our "Duplex" flat steel harness.

YES? WHY?

"Duplex" lasts twelve times as long as twine harness, can be changed more quickly from one cloth to another, and is more satisfactory in every way than any other loom harness known.

Note: Our loom harness is shipped out completely assembled and ready for drawing your warps in plain or fancy weaves, or heddles can be assembled by you on the frames at your mill.

HEDDLE MFG. CO. STEEL

GREENVILLE

Duplex" Loon Frames and Heddles fully assembled

Harness Frames Selvage Harness Leno Doups Jacquard Heddles PHILADELPHIA

SOUTHERN PLANT Greenville, S. C.

> HAMPTON SMITH Southern Manager

PROVIDENCE

Drop Wires Nickel-Plated Copper-Plated Plain Finish

Improved Loom Reeds Leno Reeds Combs

MILL NEWS ITEMS OF INTEREST

Spindale, N. C .- The Elmore Company, which is building an addition to its yarn mercerizing and finishing plant, has let contract to the Bahnson Company, Winston-Salem, N. C., for humidifying equipment.

Searcy, Ark.-Business men of this place are corresponding with Eastern mill men with a view of erecting a cotton mill here. The development of a hydro-electric plant on the Little Red River, near here, makes power available.

Anniston, Ala.—It is reported that that Adelaide Cotton Mills will make a number of improvements, including an extension to the building, the erection of a number of new homes and the development of parks and playground.

Nashville, Tenn.-The Dupont Fihersilk Company, Buffalo, N. Y., has let contract to Ingall Iron Works, Birmingham, Ala., for structural steel for building the plant which they will erect here to make fiber-

Greenville, S. C .- The plant of the Southern Bleachery at Taylors, near here, is expected to begin operations this week. It will have an initial capacity of 1,250,000 yards per week and it is planned to practically double the output later.

N. C.—The Bearskin Monroe, Mills, which were sold a second time by receivers, are expected to be taen over this week by the Monroe Mills, which was recently organized for the purpose. It is understood that the Johnston interests of Charlotte are the controlling stockholders in the company.

Tuscaloosa, Ala. — To encourage new mills to locate here, the county authorities of Tuscaloosa county have exempted new textile companies from county taxation for a period of five years. The Chamber of Commerce of this place is making efforts to have two new plants built

Gastonia, N. C .- The building of the Gastonia Cotton Manufacturing Company was sold at auction for 827,000 to R. B. Babington, W. C. Adams, Hugh Pinnix, R. M. Johnston and J. Spencer Love. It is understood the new owners will cut the building into several sections and lease it for small manufacturing purposes.

The machinery of the Gastonia Cotton Manufacturing Company was moved to the Burlington Cotton Burlington, months ago.

The Gastonia Cotton Manufacturing Company was the oldest mill here, having been built in 1889 by George A. Gray and R. C. G. Love.

THE FARISH COMPANY

COMMISSION MERCHANTS



100 WORTH STREET **NEW YORK**





Specialties for Cotton

MONOPOLE OIL egistered Trade Mark No. 7099

CREAM SOFTENERS

Neutral Sulphonated Cotton Softeners

HYDROLIQUID

BLEACHING OIL

Used in Kier boil for dissolving Cotton wax.

SOLUBLE OIL Alizarine Assistant-Turkey Red Oil-Sulphonated Castor Oil

ACQUES WOLF &

PASSAIC. N.J.

The Macrodi FIBRE HEAD

WARP SPOOL

after fourteen years of the hardest mill use has dem-onstrated that it is

Durable—Economical

Write for particulars of the added traverse with corre-sponding increase in yardage— an important feature of this spool.

Prompt deliveries in two to ree weeks after receipt of

MACRODI FIBRE CO. Woonsocket, Rhode Island

MACRODI Barrel Bushing

Members American Society Landscape Architects

E. S. DRAPER

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Largest Landscape Organization in the South

Rockingham, N. C .- The Roberdel Manufacturing Company has let contract to T. C. Thompson Bros., Charlotte, for erecting a conditioning room at their No. 2 mill for conditioning filling. The company has awarded contract to the Bahnson Company, Winston-Salem, for humidifying this conditioning room.

Lexington, N. C.—Erlanger Cotton Mills has let contract to E. H. Clement Company, Charlotte, N. C., for construction of swimming pool 45x 90 reinforced concrete, color, green. Bath houses, pergola, wading pool, etc., to be constructed later. Cost \$10,000. E. S. Draper, landscape architect and engineer, 11 East Fifth street, Charlotte, in charge of development, preparation of plans, etc.

Houston, Tex .- The new Houston Cotton Mills, to be built here, as re cently noted, will manufacture cot-ton blankets. The first unit will consist of a main mill building, one story and basement, standard mill construction 138x338 feet; two-compartment warehouse with opener room 100x125 feet and boiler room. Plans, which are by J. E. Sirrine & Co., Greenville, S. C., are now in hands of contractors and contract is expected to be let May 23.

Swannanoa, N. C.—The Beacon Manufacturing Company, of New Bedford, Mass., which will erect a blanket manufacturing plant here, as previously noted, has let contract to Morton C. Tuttle, of Boston, for construction of the building. De-tails of the building have not yet been announced. It will contain 200,000 square feet of floor space and cost about \$1,000,000 with equip-The mill company has a site of 175 acres and the landscape work and village layout will be handled by E. S. Draper, landscape architect, of Charlotte.

Lyman, S. C .- Machinery is being installed, set in order, boilers are being fired up and tested, the gigantic filtering plant is being tried out, and all officials with possibly two exceptions have arrived at the plant, goods are being shipped in from other mills of the Pacific group for the bleachery, and according to General Superintendent Leonard S. Little, of the Lyman department of the Pacific Mills.

Things are shaping up for the bleachery and mill to begin early operations. There are 25 families in employees' homes in the village, and persons are coming daily for employment.

Work on the handsome community building, the school, the church and the residence of General Superintendent Little and other officials is being steadily pushed. Walter Cook, chief architect of Lock-wood, Greene & Co., with headquarters in Boston, Mass., is inspecting and about the village. Mr. Cook designed a number of the important Mr. Cook de- is held. buildings now under process of con- Ga., netted \$30,124, when directors struction, as well as the employees' met there last Thursday and voted homes. Ira Kaufman, resident en-gineer of Lockwood, Greene & Co., who has been at Lyman from the The mill has a capitalization of start, has kept things going all along up to the standard.

Mr. Little announced that Parklap, Inc., the contractors, are clearing up their entire work, and the Minter Homes Company, contrac-tors for building the employees' homes, have practically completed the erection of the 320 employees' dwellings.

The entire development at Lyman represents an expenditure of from four to five million dollars.

Spartanburg Mill Dividends

Spartanburg, S. C.—A total of \$342,274 in dividends was voted by boards of directors of six cotton mills, located in Spartanburg county and other sections of the South, at meetings held here. The dividends represent the returns from total investments of \$9,090,600, according to capitalization figures furnished by stock dealers.

The biggest dividend was declared by Pacolet Mills, when a 5 per cent semi-annual dividend was voted on common stock and 3 per cent on preferred stock. The mill is capitalized at \$2,000,000 common stock and \$2,000,000 preferred stock. The dividend will total approximately \$160,000.

Next in order was the Spartan Mill, with 4 per cent declared on \$2,000,000 common stock, the dividend amounting to \$80,000. There are no preferred stockholders

Laurens Mill, at Laurens, voted 4per cent dividend on capitalization of \$1,050,000 common stock, or \$42, 000 All preferred stock has been

Whitney Mills, with \$600,000 common stock, will pay \$18,000 at 3 per

stock and 3 per cent on preferred. \$490,000 common and \$350,000 preferred.

Drayton Mills, with a capitalization of \$250,000 common stock and \$350,000 preferred, declared 31/2 per

Referee in Mathieson Litigation Reports for Arnold, Hoffman County

Providence, R. I.,-A preliminary

findings sustaining certain claims of pany's right to recover Gainesville Mill, at Gainesville, Arnold, Hoffman & Company. The question decided by the master before whom the case has been pend- District Court at Providence by per cent dividend on common ing for nearly three years, was whom the case will now be taken up, ock and 3 per cent on preferred, whether or not the Mathieson Alkali and in due course the claims of both Works in consequence of direct or imputed knowledge acquiesced in any of the transactions of Arnold, predecessors, for approximately 40 Hoffman & Company, of which the years were selling agents for the Mathieson Alkali Works complains. Mathieson Corporation. The master found that knowledge cent dividend on the latter, netting of Arnold, Hoffman transactions by officials at the Mathieson plants and knowledge of the contents of plant Company, as agents in records are both to be imputed to tified it in so acting. Mathieson board of directors and that in consequence Mathieson cannot now recover against Arnold, Hoffman & Company for some of decision in the litigation between Hoffman & Company for some of Mathieson Alkali Works and Arnold, the transactions. There have been Hoffman & Company of this City has no findings as to the sufficiency of been made by James H. Higgins as the Mathieson's defence to the suit

the entire appearance of things in cent dividend. No preferred stock master who has filed his report and brought by Arnold, Hoffman & Com-

The master's report was presented to Judge Brown of the United States sides will be presented o the court. Arnold, Hoffman & Company, or its

In 1919 the Mathieson corporation severed relations, claiming that the performance of Arnold, Hoffman & Company, as agents in the past, jus-The Mathieson Corporation then moved to New York.

In 1920, Arnold, Hoffman & Company brought suits against the Mathieson Works in the Superior Court in Providence for damages for alleged breaches of contract, and also on specific contracts by which the Mathieson Works had agreed to sell Arnold, Hoffman & Company, for its own account certain large quantities of its products.

Later the Mathieson brought suits in New York State against Arnold, Hoffman & Company, and Mr. Arnold individually, and suits in equity in the Federal District of Rhode Island against Arnold, Hoffman & Company, and also against Mr. Gadding individually.

Barber Mfg, Co. Will Move to Charlotte.

The Barber Mfg. Co., of Lowell, Mass., well known manufacturers of spinning tapes and similar products, have leased an entire floor of the new addition to the Wade Loft Building in Charlotte and will move their plant to this city.

This company has for many years enjoyed a large business with Southern mills and their decision to business. move South will be received with unusual interest.

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Number Nine.

(Continued from Page 18)

isher and breaker have ball bearings this machinery exceeded the speed for their high speed shafts. Cards, are equipped with a good stripped and are driven by shaft for each fifteen cards. This shaft is equiption this mill is far above the average or tile Mills.

Charlotte Bulletin Bulletin.

Charlotte Bulletin Charlotte Bulletin Bulletin.

Charlotte Bulletin Bulletin.

Charlotte Bulletin Bulletin.

Charlotte Bulletin Bulletin. equipped with a good stripper doffer seven to eight turns per min-ute and card a sliver 52 grs. per yard and then not have to rush their cards for production.

each twenty deliveries with low ever met in more ways than one. of any newspaper in its fleid. front roll speed, and revolving His agent and superintendent are The paper has built up on the idea clearers and full can and target stop men of ability or they couldn't have of service to the textile industry. motion with hardened front roll.

Slubbers and roving are of the latest and each machine is driven frames and tape drive is used on ters and has striven to place every by an individual motor, so is the spindles.

spinning and twisting, weaving and all the rest of machinery individual motor driven, all fluted front rolls facturer.

put up such an ideal plant.

TEN O. C.

Textile Bulletin

An important factor in the deequipped with evener motions. Fin- machinery is hardened and none of this section and throughout the dustry and is at the present in

The company also publishes.
The breaking strength of yarn at Clark's Directory of Southern Tex-

and a good place to wash. They of textile publications and it is now have good drinking water furnished one of four big textile publications ard and then not have to rush their through sanitary drinking founts on in the country. It does not seek circulators for production.

Drawing is driven by motor to one of the most wonderful men I the South it has the largest circulators.

> It has worked with the manufactur-Spinning has filling wind on warp ers on legislative and business matphase of the industry on a sound

basis. The paper is published weekly at \$2 a year.

Mr. Clark takes an active part in this machinery exceeded the speed South, is the editor, the firm name charge of the exhibit in connection limit given by the machine manu- being the Clark Publishing Company, with the meeting of the Southern Wholesale Dry Goods Association here—From The Textile Number of Charlotte Chamber Of Commerce

Information Wanted

As to whereabouts of Mrs. Lydia Hill. Left home April 8, leaving husband and 2 small children. Description: slender, light hair, blue eyes, gold upper front tooth, age 28 years, height about 5 ft. Last seen with tall man about 21 years old at Kings Mountain. Information will be appreciated. F. Robertson Hill, Mt. Holly, N. C. P. O. Box 297.

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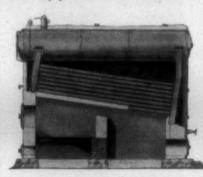
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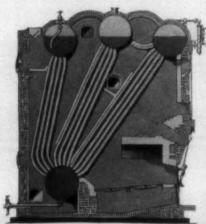
One-Piece Furnace Lining

In these days of keen competition to the efficient and constant operand small profits, manufacturers are ation of the boiler plant. impressed with the necessity of The One-Piece Furnace Lining is cutting costs wherever possible and in plastic form, used on the inside of

To help put the boiler and furnace



equipment on an economical and efficient basis, the Cornish Company, of Hartsville, S. C., is manufacturing a "One-Piece' Furnace facturing a "One-Piece' Furnace Lining" that is designed primarily



in operating every department effi-ciently and economically.

furnace in place of fire brick. As its name implies, it is in one solid piece when it hardens in the furnace. It expands uniformly, thus forming a bond that holds in spite of the sudden and frequent variations in tem-perature to which it is subjected. It is adapted to use in all types of boilers as it can be mouled easily into any shape.

This furnace lining, by reason of its solid construction without joints, has proven very effective in stopping leaks in fire walls. In this manner the manufacturers say, it effects a substantial saving on coal costs, an item of great importance every user of boiler equipment.

Installations of One-Piece Furnace Linings are made by The Cornish Company at no additional cost to the

The Cornish Company claims for its product that it will put an end to costly repairs to fire brick furnace linings, save coal by preventing air flowing from the outside to the inside of the furnace, and mate-rially add to the general efficiency the furnace equipment. Statements from a number of large manufacturers who are using this furnace lining tend to substantiate the claims of the manufacturers.

In addition to a large number of installations in various other man-ufacturing plants, the Cornish Company has recently installed its onepiece furnace lining in the follow-ing cotton mills: Woodside Cotton Mills, Greenpille; Piedmont Cotton Mills, Piedmont, S. C.; Enoree Mills, to save the cost of repairs on the Holt-Williamson Manufacturing Co., fire brick furnace linings and to add Fayetteville, N. C.

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Weavers' Meeting in Spartanburg

(Continued from Page 20)

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Lockman, F. D., Supt., Monarch Mills, Lockhart, S. C.

McCombs, J. V., Supt., Union-Buffalo Mills Co., Buffalo, S. C.

Maigatter, C. D., Salesman, Hart Products Corp., Charlotte, N. C.

Miller, Hugh, Spartanburg, S. C. Moore, P. B., Supt., Conestee Mills, Conestee, S. C.

Moore, W. Y., O-Weaving, Union-Buffalo Mills Co., Buffalo, S. C.

Seneca, S. C.

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Ostein, R. T., O-Weaving No. 2, F. Rogers, H. O., Supt., The Hartwell Mills, Hartwell, Ga.
Ostein, R. T., O-Weaving No. 2, F. Rogers, W. J., O-Spinning Room, W. Poe Mfg. Co., Greenville, S. C.
Padgett, C. M., Supt., Seneca Co., Seydel, Paul, Pres., Seydel-Thomas Co., Atlanta, Ga.

Padgett, P. A., O-Weaving, Eastside Mfg. Co., Shelby, N. C.
Philip, Robert W., Associate Editor, Cotton, Atlanta, Ga.

Cotton, Atlanta, Ga.

Phillips, J. L., Southern Textile Bulletin, Charlotte, N. C.

Poole, D. F., O-Weaving, Dunean Mills, Greenville, S. C.

Poole, J. K., O-Weaving, Whitney Mfg. Co., Whitney, S. C.

Poole, R. W., Service Man, Draper Corp., Atlanta, Ga.

Pratt, W. B., Sou. Agent, Joseph Sykes Bros., Charlotte, N. C.

Pruitt, G. P., Cloth Room, Dunean Mills, Greenville, S. C.

Rakestraw, S. P., Sou. Agent, Seydel Chemical Co., LaGrange, Ga. Ramsey, T. C., Cloth Room Overseer,

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Waits, E. G., Carder, Oakland Cotton
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Warren, C. H., Draper Corp., Atlanfa Ga

West, Jack, Salesman, Carolina Supply Co., Greenville, S. C.

White, H. B., O-Weaving, D. E. Converse Co., Glendale, S. C. White, Jno. R., Mgr., Corn Products

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Improved Opening Machinery.

(Continued from Page 16) fans for drawing cotton from a distance, placed on each side of a central beater, to whose action the cotton is subjected in its passage from the exhaust tubing to the

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Safety guards for machinery are not more necessary than protecting your floors from slipperiness—a common form of accident in the mill.

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All Kinds of Spindles Repaired

A few of the advantages of our Patented Clutch on twister spindles are:

The elimination of slack twist by the bobbin rising on top of driver; more uniform filled bobbins; doing away with knee Breaks; cutting down bobbin expense 50 per cent.

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cages. Between the fan and beater a regulating disc to control the amount of cotton to be passed to each of the two side fans so that any irregularities in the lap, when the opener is used in conjunction with a lap-forming apparatus, can be remedied by adjusting these discs. The arrangement of a fan and disc on each side of the opener greatly contributes to the equal distribution of cotton over the width of the machine. Over the circular casing, surrounding the upper por-tion of the beater, an air valve is provided to automatically close the communication between the trunks and the opener and to admit external air to the machine when the latter stops for a full lap. This arrangement prevents an accumula-tion of cotton taking place at the cages, obviating consequent thick places being formed in the succeeding lap.

Safety Beater Lock.

In order to lessen the number of accidents and in keeping with the policy of many mills to reduce the chances of accident to the minimum the H. & B. American Machine Company has designed a safety heater lock which is positive in action and which is fool proof.

This lock is designed so that it is impossible to start the machine when the beater cover or glass door is open and it is equally impossible to open either of these before locking the machine. This device is simple of construction and very durable and has been approved and recommended by insurance companies. It can be easily applied to old machines by the mill machinist.

Cotton Used in April

Washington, May 14.—Cotton consumed during April amounted to 480,010 of lint and 41,030 of linerts consumed during March this year and 576,514 of lint and 52,595 of linters in April last year, the census bureau announced today.

Cotton on hand April 30 was held as follows:

In consuming establishments 1,328–273 bales of lint and 130,245 of linters compared with 1,498,266 of lint and 126,149 of linters so held on March 31 this year, and 1,878,198 of lint and 179,941 of linters so held on April 30 last year.

In public storage and at compresses, 1,512,086 bales of lint and 83,-344 of linters, compared with 1,-983,544 of lint and 89,032 of linters so held on March 34 this year, and 1,935, 714 of lint and 53,807 of linters so held on April totalled 40,436 bales, compared with 49,832 in March this and 37,274 in April last year.

Exports during April totalled 320,-774 bales, including 9,561 bales of linters, compared with 332,168 including 17,091 of linters in March this year and 259,984 including 2,769 of linters in last year.

Cotton spindles active during April numbered 31,871,665 compared with 32,392,171 in March this year and 35,512,737 in April last year.





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Textile Chemicals for Best Weaving

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The result of twenty years' study and practice in treatment of Sizing and finishing problems.

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THE GREATEST IMPROVEMENT MADE IN COT-TON SPINNING IN QUARTER OF A CENTURY

The Richards-Hinds Light Running Rolls

Over 2,000,000 Spindles Equipped to Date

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One-third Saved on Leather Covered Rolls
Better Spinning with Improved Product

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are in daily use in hundreds of textile mills.

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Connect a PURO to your supply, then proceed to forget about it. Years later PURO will be just as satisfactory as it was the day you installed it,

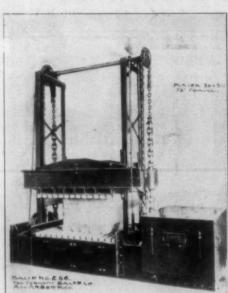
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with Direct Connected Electric Motor.

Press will develop tremendous pressure, ample for the baling for Export and Domestic shipment of Duck, Khaki, Osnaburgs, Sheeting, Print Cloths, Ticking, Twills, Denims, Drills, Lawns and Shirtings or for compressing ginghams. Requires only about one minute of actual motor operation to make a Bale of Cloth.

Press maintains its maximum pressure indefinitely, until released. Unlimited compressing platen stroke. In other words, platen will travel as low as is necessary to completely compress the bale, regardless of the third dimension, as the platen can go down to within four inches of compressing platform. Entirely self contained, requiring no cement foundation, pit.

over head counter-shafting, chain connections, etc.

Chains are hand forged Swedish steel. Will stand over 50 per cent
over load, a greater load than can be exerted by the motor pulling up to
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Pag	ge		age
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and the state of t		Troute, I. D. could Co.	3

Fire Without Having A Cleaning Period On



THOMAS GRATE BAR COMPANY

Spindles for Cotton and Silk

Pawtucket, R. I.

Charlotte, N. C.

Improved Opening Machinery

(Continued from Page 7) recognized as one of the most important departments in a cotton

cotton in a picker injures the staple. Therefore, since the introduction of cent, and which vertical openers, which relieves the more even feed. amount of cleaning to be done by a lapper, beater speeds have been greatly reduced. It is now rare to find a beater running in an up-todate mill at the old standard speed of 1,500 R.P.M. for a two-blade beater. It is also clearly understood pense of an addition of one or two the hardest kind of work. more lappers. The entire picking equipment for a mill costing a mil- Greenville's Exhibit At The Southern dollars often costs less than \$15,000.

Many mills now find that by using a Morton distributor and an evener Chamber of Commerce committee in on their breaker that they can do charge of the Greenville section of just as well with two processes of the Southern Exposition to be held picking as they can with three. The in The Grand Central Palace Februadvantage of the doubling on the ary 2 to 14, 1925, announces that intermediate picker should not be Greenville firms have applied for disregarded and should be offset by approximately 1500 square feet of evening equipment. In many cases space. The business interests of mills can better their picking by Greenville have realized that the using their present picker equip- prominence of an All Southern show ment by going to two-process pick- held in New York will attract suffing and adding eveners to the break- cient attention to give nation- wide required to reduce the production spicuous one. per machine can be made out of All products will be strictly Green-their present intermediate pickers, ville made. The great variety of two-process picking will show a better breaking strength of yarn.

Whitin Picker Room Machinery

(Continued from Page 10) cost. We recommend the three- be under the supervision of the bladed beater because it means the Chamber of Commerce who will same beating per inch of cotton at show the many advantages offered reduced speed—again less injury to new industries. Plans are well the machines, thereby making the pickers easier to clean and giving them a much better appearance. Due to the very excellent Whitin space has been applied for. beater-cover lock it is impossible for the operative being injured by trying to stop a beater with his The number of spindles and looms hand—a foolish sounding fact but in Lancashire show a large decrease one that has happened often in the past.

Let us go back for a minute to a Butler. more detailed exposition of the Whitin evener motion. Due to the keys right up to the feed rolls we rious believe that we have the most sen- given

Let us take up briefly our waste Commerce.

picking machinery. Our willow is built to handle all kinds of soft waste with undesirable materials therein—such as floor sweepings, card strips, fly, etc. Its production runs from 4,500 to 7,000 pounds per Practical students of cotton yarn have attached when wanted the aumanufacturing realize that beating tomatic feed which cuts the old cost of feeding by hand at least 80 per cent, and which means a better and

The Whitin hard waste machine, recently brought out, will handle all kinds of hard waste, the number of sections needed depending on the hardness of the waste. We build this machine in one to eight sections. The cylinders are made with that an overworked picker cannot %-inch boiler plate drums, thereby turn out even laps. Inasmuch as insuring the maximum safety at all the lappers are inexpensive com-reasonable speeds. The entire mapared to the poundage they produce, chine is built to run with the minimum do not think a mill should sacrimum amount of friction and with fice evenness on account of the extra the maximum ability to cope with

Exposition

Fred L. Bryant, Chairman of ers, and using a Morton distributor, advertising and have determined to The extra breakers and finishers make Greenville's display a con-

This idea is recommended to mills cloths made by the local mills will that cannot economically enlarge be shown. These will include heavy their present picker room. The in- duck, medium weight goods, fancy termediate pickers cannot be done mixed silk and cotton dress goods away with, without carefully con- and all-woolen worsteds. Spaces sidering every angle. It is true that have been taken by the dyeing, Bleaching and Finishing Plants and several textile accessory manufacturers will display their products. Many other firms and organizations with national reputations will be represented.

The entire Greenville Section will to the stock. The calender roll advanced to make the annual Ac-we shting is placed on the inside of quaintance Tour to New York durquaintance Tour to New York during the show.

It is also of interest that approximately 60% of the South Carolina

Lancashire Spindles and Looms.

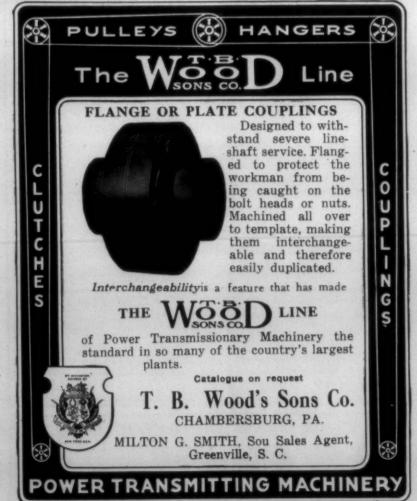
since 1917, according to a report from Trade Commissioner Hugh D. Butler. The Cotton Spinners' and Manufacturers' Directory lists 57,-425,881 spindles on December fact that the cotton passes over the 1923, a decrease of 1,462,514 since keys of our piano link motion and 1917. Details of gains and losses for to the fact that we can bring our both spindles and looms in the vamanufacturing towns are believe that we have the most sen- given in Special Bulletin No. 310, sitive and efficient evener motion issued by the Textile Division of the made.

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J. H. Mayes, Southern Agent





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Texas and Oklahoma

New Leakproof Sleeve Bearing for Electric Motors

the leakage of oil into the windings or the entrance of dust and grit Manufacturing Company. This new tight by an oil proof packing.
bearing, which is known as the Where the shaft passes through
Sealed-Sleeve bearing, is so con- the bearing, an improved method of structed that it is almost air tight, supporting the felt dust-proofing

oil level rose high enough to close the lower cored openings

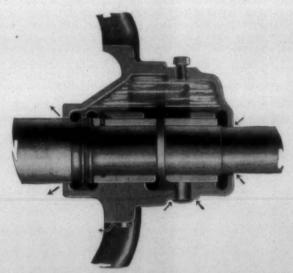
For inspection of the oil ring, a A new type of sleeve bearing for large air-tight threaded pipe plug is electric motors, designed to prevent provided. An enclosed combination the leakage of oil into the windings filling and overflow opening is or the entrance of dust and grit placed in the side of the bearing into the bearing has been developed and a rigid cast iron cover is bolted by the Wartingham Electronic Cover is solved. by the Westinghouse Electric and over the oil ring slot and made air tight by an oil proof packing.



Motor with the new bearing driving a centrifugal pump in a steel mill. Although it has been in service for many months, there is no oil leakage into the motor, the shaft being actually rusty.

preventing air from getting in and washer is used. For the purpose of oil from leaking out.

lending resilience to the soft felt, The principal methods used to the metal cap has a diameter at improve the conventional bearing least one-quarter inch larger than are comparatively simple. A conthe shaft diameter. This prevents necting passage in the upper part the felt from being compressed close of the bearing housing secures a to the shaft, which would cause it to condition of balanced air pressure become glazed and hardened and to in the separate chambers into which soon burn and wear out. Since it is the housing is divided by the bear-left free to expand, it acts like a

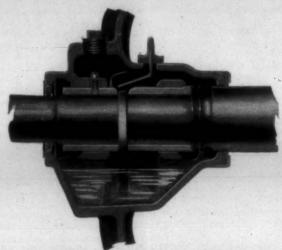


A motor bearing of the conventional design. Note the openings in the housing through which air and dust can enter the bearing, mix with the oil and then be carried into the motor windings.

The action of the brush and does not mar or glaze blower at high speeds sets up a The air tight construction of the vacuum next to the inside end of bearing prevents the passage of air the housing and, since it is impossitively the bearing and at the ble to seal the housing absolutely at same time prevents oil from being that point because the shaft passes drawn into the motor windings. The out there, the vacuum is communi- oil ring, carrying oil from the oil cated to the space within the hous- well to the motor shaft, stirs up and ing itself. If the upper passage were churns the oil into a fine spray, not provided, an unbalanced air which, in the ordinary type of bear-pressure would result whenever the ing, is sucked into the motor and

covers the windings. The Sealed- impurities it contains but by its Sleeve bearing is sealed so thor- breakdown as a lubricating medium. oughly that the escape of oil from By absolutely preventing oil leakthe bearing is prevented.

age, the Sealed-Sleeve bearing pre-The manner in which the bearing vents weakening of the motor insuis sealed against the entrance of air lation by the lubricating oil and the



The Sealed-Sleeve motor bearing, showing how effectively this bearing is sealed against the entrance of air or dust and prevents the leakage of oil or oily vapor into the motor.

makes it immune to most conditions resultant grounds and short circuits, of dirt, dust and grit. No gritty which frequently result in delays substances can enter to mix with and expensive repairs. the lubricating oil and cause wear of the bearing shell or shaft. Clean oil is always supplied to the bearing no attention and oiling once or twice and the life of the lubricating oil is a year is generally all that is necesdetermined not by the amount of sary.

The bearing requires practically

450,000 H. P. in Ten Years

of the Southeastern States will re- produced. quire additional power equivalent to 450,000 horsepower in the next 10 000 bales of cotton and manufac-years, E. A. Yates, general manager tured into a finished product only of the Alabama Power Co., today 46,000 bales, or 13 per cent of its told the Senate Committee on Agri- production. culture, which is considering bids "Mississippi, in the same year, for the disposition of Muscle Shoals, produced 1,010,000 bales of cotton

mal growth of business of Southern or 4.8 per cent. power companies, which have sub- "It is interesting to compare the mitted an offer for the Government's cotton spindles in these States. In decade will exceed all the water

Speaking of the textile mill situation, the witness further said:

"Alabama, in 1922, grew 835,000 bales of cotton, of which 382,000 bales, or 44.5 per cent, were manufactured into the finished product in that State. With one exception, where a cotton mill in Alabama owned and operated its own indivual water power plant, over a period of 10 years, 80 per cent of the cotton ity hydro-power.

Southern Mills Must Add 355,000 bales more than it produced.

South Carolina, in the same year produced 530,000 bale's and imported for manufacture into a finished Washington, May 14.—Cotton mills product 393,000 bales more than it

"Louisiana, in 1922, produced 357,-

Mr. Yates declared that the nor- and manufactured only 48,000 bales,

hydro-electric and other develop- the cotton States having hydroments on the Tennessee river, in a power, Alabama, in 1922, had 1,300,-700 spindles; North Carolina, 5,292, power developments possible in that 800 spindles, and South Carolina, area and will require supplemental 5,090,000. In those States without The power companies propose to operation only 103,000 spindles, and link Muscle Shoals in a super-power Mississippi 172,000 spindles, and system with a network of lines "It has been stated the

system with a network of lines "It has been stated that a bale of throughout the Southeast, Mr. Yates cotton produced in Mississippi and shipped to another State for conversion into a finished product would leave in Mississippi \$150. If manufactured into a finished product in Mississippi, it would represent in finished product, wage and manufacturing costs in that State approximately \$1,700."

Power Company May Add to Catawba Hill.

Rock Hill, S. C .- That the Southspindles in Alabama have discarded ern Power Company plans to make isloated steam power for public util- improvements to the Catawba dam, near Rock Hill, at the cost of sev-"In North Carolina, 1922, there eral million dollars, in the near fu-were grown 852,000 bales of cotton, ture, is indicated by information while it manufactured into the coming from what is considered finihed product 1,207,000 bales, or here as reliable sources.

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ROBINSON & BAGGETT

Brevard Court

Charlotte.

Deterioration of Duck When Waterproofed

(Continued from Page 14) the pieces were detached from the boards, brought to the laboratory, dried overnight in an electric oven at 54 deg. Cen., and then tested for their comparative water-resistance by the modified funnel test, being rated on a basis of 10. The funnel test was repeated on all pieces from one to three times and the ratings were averaged. Many of the pieces were also tested by the modified spray test.

After the laboratory tests for water-resistance of the exposed samples were completed, the same pieces were used for tensile strength tests by cutting each into five strips, in. long in the warp direction and 1¼ in. wide, and then pulling out the warp yarn from both sides of the narrow strips until 46 threads, equivalent to a width of 1 in. in the original canvas, remained. They were then placed in the constanttemperature and humidity room and allowed to condition at 65 per cent relative humidity and 70 deg. Fah. The tensile strength was de-termined at this condition by means termined at this condition by means of a standard type of tensile strength tester. The results recorded in the tests are an average of five breaks in every case. The effect of the treatments upon the consile strength of the expressed duck tensile strength of the exposed duck is expressed as percentage gain or loss, calculated from the tensile strengths of the treated and exposed samples and using the average When strength of the exposed untreated cent) samples as the basis of comparison.
With all the treatments which

contained pigments other than asphalt or pitch, the tensile strength of the treated canvas after exposure was lower than that of the untreated canvas after exposure, and in many cases the deterioration was

This general result differs strikingly from that obtained in previous oleate in formulas containing no as-experiments with yarn, the treated phalt. Apparently, there was no samples of which in most cases difference in water resistance when showed a greater tensile strength after one year's exposure than did the untreated yarn after exposure. not perfectly clear. Probably, however, the different method of exposure, resulting in subjection of the canvas to much higher temperat-

W. J. BRITTON & CO. RIVERS, BENDERS and STAPLE COTTON

> 105 S. Front St. Memphis, Tenn, U. S. A.

ures than the yarn, and the different methods of applying the treatments are important factors.

Canvas subjected to treatments consisting of a mixture of 85 per cent mineral wax and 15 per cent of beesway and that subjected to raw linseed oil treatment showed decided deterioration, being from 63 to 84 per cent weaker than the un-treated canvas after exposure. Yellow petrolatum apparently had a greater deteriorating effect than any other material used. When petroleum asphalt was substituted for beeswax a somewhat higher tensile strength was obtained, and as the quantity of asphalt was increased and that of the petrolatum decreas-ed proportionately, the tensile strength increased. When coal-tar pitch was substituted for petroleum asphalt, there was a somewhat greater increase in strength. lead oleate was substituted for a portion of the amorphous mineral wax, the strength was slightly increased, and the substitution of copper oleate for lead oleate for lead oleate caused a still greater increase in strength.

Dark petrolatum and amorphous mineral wax have practically the same water resistant qualities when 15 per cent of beeswax is mixed with them. Yellow petrolatum which has a lower melting point and less viscosity than dark petrolatum, gave a much lower water re-sistance rating when mixed with the same amount of beeswax than did the other two petroleum "greases." When an excess of asphalt (75 per cent) was combined with either dark or yellow petrolatum, the water resistance ratings were the same, being increased to 10 in each case. The substitution of 20 per cent of lead oleate for the same amount of amorphous mineral wax increased the water resistance. Neither copper nor calcium oleate (20 per cent) was as effective from waterproofing standpoint as lead an excess of asphalt (60 per cent) was used. A noteworthy point in connection with these results is that The reasons for this difference are whenever petroleum asphalt or coal tar pitch was included in the preparations, the water resistance ratings were high. Other experiments have shown that natural refined asphalts give similar results. Of the four materials used alone, beeswax gave the highest water resistance rating, viz., 10.

Pigments, when added to water-proofing treatments which are known to have injurious effects on canvas exposed to the weather ma-

Incorporated 1923

F. M. CRUMP & CO.

COTTON MERCHANTS

MEMPHIS, U. S. A.

D. H. CRUMP, President H. B. POTTS, Vice-President

J. C. WILLIAMSON, Vice-President A. C. ROBINSON, Sec'y. & Treas.

many of the pigments used had a preservative effect, the strength of the treated fabric after exposure reated than that of the un-treated canvas after exposure. This effect of pigments in retarding the deterioration of waterproofed canvas exposed to the weather unments, pigments have more or less doubtly is due to the fact that they of a stiffening effect, sometimes form a coating on the surface of the fabric, which tends to shut out the poses which require folding. Zinc light. A somewhat similar effect is oxide had the greatest stiffening obtained by the use of bituminous effect, and lampblack and aluminium fabric, which tends to shut out the materials. This might explain why treatment with preparations containing an excess (over 50 per cent) of asphalt or pitch usually left the canvas stronger after exposure than when it was subjected to other treatments. The fact that the treatments containing coal-tar pitch gave higher results than similar treatments containing petroleum asphalt was probably due to the darker surface coating obtained in the case of the pitch. An inspection the canvas indicated that the petroleum asphalt, being more com-pletely dissolved, had penetrated the fabric, leaving less color on the sur-

Canvas subjected to the base treatment of petrolatum and beeswax with the addition of various pigments was, after exposure, from 1.7 to 8.3 times as strong as canvas subjected to the base treatment alone. No great significance can be attached to the fact that two samples of apparently the same pigment —in one case dry and in the other case ground in oil—differ with re-spect to effectiveness in preserving the strength of the treated canvas. Apart from the possible effect of linseed oil, the pigment in two different samples might vary in chemical composition and physical prop-

As a result of adding pigments to the linseed oil treatment, six months exposure caused less reduction in tensile strength of the treated canvas than was shown by exposed canvas treated with the oil alone. This was true in every case, the strength after exposure being from 1.3 to 2.6 times as great as the strength of the canvas treated with boiled linseed oil without pigment.

The addition of pigments to yellow petrolatum and beeswax resulted in increased water resistance ratings. The addition of burnt umber two preparations containing an excess of asphalt and having very high water resistance ratings did not affect their ratings. The addition of pigments to commercial, boiled linseed oil had the general effect of slightly increasing the water resistance

Canvas treated with three commercial preparations free from pigments showed marked deterioration in tensile strength and also how water resistance after six months

All treatments which permitted the canvas to show after exposure a tensile strength of at least 38 kilog. (the strength of the untreated canvas after exposure) and a water resistance rating of 9 or 10 by the funnel test, are considered satisfactory only such preparations as contained is now being made ready.'

terially reduce such effects. In fact, pigments come within this classification, it is probable that the treatments would also be improved by the addition of the same pigments, and that, in general, the use of pigments in waterproofing treatments is beneficial.

When added to linseed oil treatmaking the canvas too stiff for purbronzing powder probably had the least.

In commercial waterproofing preparations where there is a choice between light-colored or colorless and dark-colored varieties, the dark colors, such as buff or brown, will probably prove more durable.

Butterworth Southern Plant Now in Operation

After rather extensive interior alterations, the Greenville, S. C., plant of H. W. Butterworth & Sons Co., Philadelphia, has just started to

This place was taken over by the Butterworth organization several months ago. It was formerly operated by the Greenville Foundry and Machine Company. The foundry has been sub-let to the Greenville Steel & Iron Works, who, in addition to operating for themselves, will also make castings for the Butterworth Company. The foundry has a capacity up to 10,000 pounds.

the present, machine work only will be done in the new Butterworth shop. It has been decided, however, to offer facilities of the shop to Southern manufacturers who might wish to have machine work done here which they cannot do in their own machine shops.

The Butterworth shop has a complete equipment, including shapers planers, lathes, drill presses and grinding machines, as well as cranes which insure transportation from machine to machine without loss of time. There is also a railroad siding direct to the loading and unloading platform of the shop.

In speaking of the new shop going into operation, J. Ebert Butterworth, treasurer of the company, who is in charge of the Southern office, located in the Woodside building, Greenville, said:

"We feel that we should give to Southern manufacturers every aid which can be given. Along this line, while it is entirely possible that our own work will keep our shop pretty busy, still we will always try to find time to do as promptly and efficiently as possible any work sent to us. We did not in the beginning think of taking in outside work, but the question has been asked of us so many times that we thought it best to throw our entire facilities open to the manufacturers of the South

Another question which has been asked of us many times is how soon we will be ready to refill rolls. would say that about six weeks will for increasing the service ability of be required to put in the large cotton duck for outdoor uses. Since presses. The foundation for these



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Cotton Goods

firmer on the unfinished lines of either nearby or later irregularity. fill in with. Curtailment of produc- off. the week.

Ginghams showed little heavier weights. ments. change for the week, especially for staple lines. Bleached cottons sold bile industry for the first quarter of wide sheetings, sheets and pillow period in 1923 a leading fabric offi-cases was quiet. Colored goods in cial arrived at these conclusions: almost all styles were quiet.

ings showed some improvement on 594,784; 1923, 11,683,641; 1924 equip-Friday and Saturday. Many mills ment, 4,206,000; 1923, 4,002,191; refused to take business for future replacement, 7,388,784; 1923, 7. clined by mills. Some business in increase in 1924. narrow cloths was reported on the Cotton goods basis of 6% cents for 27-inch 64x60s. as follows

Sales of sheetings were not as Print cloths, 28-in., 64x60s large as print cloth sales and mills Print cloths, 27-in., 64x60s were firmer in their price ideas and Gray goods, 381/2-in., 64x64s turned down considerable business Gray goods, 39-in., 68x72s ... at the prices bid.

Some new business in English Brown sheetings, 3-yard broadcloths was done for June de- Brown sheetings, 4-yard livery, but the domestic price on Brown sheetings, stand. the low counts has been moved up to 221/2 cents.

There is variation in some of the Staple ginghams. prices heard on sheetings. For in- Kid finished cambrics stance, one report tells that some 37-inch, 48 squares, 4.00 yard sold at Standard prints. 10% net. Other reports tell of 10% net, and some that one-sixteenth less had been paid. So for the 56x60, 4.00 yard, 11 net is reported, but several want one-quarter more when the quantity is under 100,000 There are reports of yards or so. some continued interest in 6.15 yard, but the buyers want to buy at a

New York.—Prices were somewhat eighth less for a fair-sized quantity,

cotton goods last week, having It has been difficult to arouse any strengthened some in keeping with appreciable interest in cotton duck the stronger cotton markets. Fin- this week though buyers have the ished goods, however, continued same opportunities for economical weak, with prices showing much purchases they have had for several There was practically weeks past. Buyers claim considerno contract business placed, almost able difficulty in finding wide and all sales being made of small lots to sail duck under 40 and 5 per cent' First hands, however, tion showed a further increase for some unwanted constructions at 45 per cent off. Some clearance army Several lots of styled goods sold duck in heavier weights have been at concessions from opening prices, sold for 47½ cents, no freight. For both in first and second hands. 8 and 8.42-ounce goods 50 cents Business in staple domestics was would represent a low price, freight slow, with neither jobbers or whole- paid. Enameling duck has been salers showing a disposition to buy quoted lower on assured business in anticipation of their fall require- with 41/2 cents basis for 72-inch

In analyzing the tire and automoin small quantifies only. Trading in 1924 as compared with the same 1924 tire production, 13,235,544; Trading in print cloths and sheet- 1923, 12,658,983; 1924 shipments, 11,deliveries at prices at which they 450, or 4 per cent increase. Old cars sold spots. Sales of print cloths ni use January 1, 1924, 12,281,412; amounting to 10,000 pieces or more January 1, 1923, 9,275,246, or an infor delivery in June and July were crease of 32 per cent. Inventories reported at 8% cents, and a number on March 31, 1924, 6,134,000; same sales at similar prices were de- date 1923, 5,700,000, or 7.6 per cent

Cotton goods prices were quoted

91/4 101/8 Gray goods, 39-in., 80x80s 1434 15%

Ticking, 8-ounce_ Denims 241/2 15 91/2a101/2 Dress ginghams 181/2a21

Japanese Silk Cocoon Production.

The cocoon production of Japan for 1923 amounted to 6,685,789 koku (kodu equals 5.12 bushel), valued at 669,347,191 yen (yen equals \$0.3992 at current exchange), according to a report issued by a Japanese bank, little under the market. The quo-based on figures collected from local tation is 7¼ net, and a few state authorities and local raw silk assothey had been unable to do one-ciations. based on figures collected from local

TRADE MARK

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The Yarn Market

Philadelphia, Pa.-The yarn market showed very little change last week. The higher cotton markets exerted an influence toward higher prices, but the lack of demand offset this tendency. The range of prices for the whole yarn list showed practically no change from last week's prices. While there was a small amount of buying of the coarse counts of carded yarns during the week, the total amount of yarns sold was small. Combed yarns were dull, especially in the counts, which are even less active than the coarser numbers. Business on the whole was confined to handto-mouth buying, there being practically no contract business of importance.

Curtailment of production has shown a slight increase in the South in the past ten days and there are reports here that more mills will go on short time within the next week or so.

Dealers handling spot lots continued to shade prices, making small sales at prices considerably lower than the mills would accept. Mill prices have held up well in the face of poor demand. There is a growing opinion here that the yarn market is gradually becoming stronger, due to the influence of curtailment. Stocks are not regarded as large and it is hoped that the market will soon work itself to a basis where buyers and sellers can find a price that will lead to more active trading.

Concerning yarn stocks in dealers' or spinners' possession, reports are still unchanged as to such supplies being much smaller than could be regarded as burdensome, even takin evidence at present.

Yarn prices in this market were published as follows, although these quotations generally are below mill

prices.	
Two-Ply Ch.	ain Warps.
2-ply 8s42 a	2-ply 24s_481/2491/2
10s43 a44	2-ply 26s_50 1/2 a51
12s to 14s 44 a45	2-ply 30s_52 a_
2-ply 16s_46 a	2-ply 40s_61 a_
2-ply 20s_ 461/4a47	2-ply 50s_72 a
Two-Ply	
8s 42 a	40s59 a
10s to 12s 42 1/2 a 43 1/2	40s ex64 a65
14s44 a	50s
16s 45 a46	60s80 a81
	Tinger Carpet-
24s 48 a481/4	3, 4-ply38 a
26s 49 1/2 a.50	
30s 51 a511/2	3, 4-ply_ 41 a_
	sulating Yarn.
	12s, 2-ply_40 a41
6s, 1-ply_36 a 8s, 2, 3 and	20s, 2_ply_45 1/2 a46
4-ply361/2a	26s, 2-ply 49 1/2 a50
10s, 1-ply and	30s, 2-ply_51 a511/2
2-ply88 a	2001 2-113-01 801 45
The second second	

	Single Chain Warps.										
		Sin	gie Cha	in War	ps.						
	10s	43	a	248		48	8				
	10s 12s	44	a	268		50	a				
	148 168	4414	a	20s		52	a53				
	160	45	9	400		61	8				
	20s	46	8	400		OT.	Ch				
		-80	Olumbia :	Olealas							
	Single Skeins. 6s to 8s 41½a 20s 45½a46 10s 42 a 24s 48 a 12s 43 a 26s 49½a										
	68 to 88.	41.56	8	208	4	45%	a46				
	108	42	8	248		48	a				
	128	.43	8	26s		4914	a				
	148	4334	R	308		51	a52				
	168	AA	6								
	16s44 a										
8s 41 a 22s 45½a46 10s 41½a 24s 46½a 12s 42 a 26s 47 a											
	88	-41	8	228	-	40 1/2	a46				
	108	41.7	a	248		$46\frac{1}{2}$	8				
	128	_42	a	268		47	a				
	148	4214	a43	288		48	8				
	166	4312	944	: 30a		50	951				
	180	8437	a .	200 tar	or In	4.0	0.40				
	12s 14s 16s 18s 20s	-327	200	400	g in.	E01/	D. 20 1/				
	408	-40	Ch	108		00 72	8193 72				
	COL										
	2-ply 16s_ 2-ply 20s_	_60	a	2-ply	50s	7.8	a				
	2-ply 20s.	_63	8	2-ply	60s	.80	8.83				
	2-nlv 20s	66	33	2-nlv	70s	98	a				
	2-ply 36s_ 2-ply 40s_	68	0	2-ply	80a	1 19	9				
	9-ply 40e	70	079	e-bro	000-	Y 70	Silver and				
	e-hil dog-	Can	had De	alan Ca							
	108	Com	ped Pe	elel. Co	mes.	00	- 00				
۲	108	_90	abl	308		63	200				
	128	_01	852	328		63	a65				
	148	-52	a53	348		65	a.67				
	168	53	854	36s		70	a.71				
	180	54	855	280		7014	n7114				
ŀ	20st	55	0	40 m		71	979				
٠.	900	55	a E C	500		70	0.80				
ï	04-	-00	2000	60-		- 60	STOR.				
В	248	-90	80072	608	-	-89	8				
۶.	268	_064	2857	708		1 00	181				
ï	288	_57	a58	80s		1 10	a				
Ę	16s 18s 20s 22s 24s 26s 28s Carded	Pee	eler The	read Ty	wist	Skei	ns.				
	20s, 2-ply	54	8.	368	-Dlv	64	23.				
۲	22s, 2-ply	55	a	400	-nlv	62	0				
	24c 0 ply	57	6	450	- palve	79	0.				
	24s, 2-ply 30s, 2-ply	-04	Al-	9035, 4	- pry	-10	čk				
	sus, Z-ply	-08	45	40s, 45s, 50s,	-ply	-10	St				
۱	122.3		Carded								
ľ	10s	_46	8	22s 26s		.52	8				
	128	47	8	268		55	a				
٨	148	48	a	26s 28s		56	a				
ı	208	51	a	30s		58	a				
ı	evD	-UL				-00	Ok				

Barbados Shirt Market.

There are about 80,000 adult males in the Barbados consular district and cheap negligee shirts, including work shirts, are readily salable there. During the war the United States gained control of this market, although during the last three years British manufacturers have regained the leading position. Consul Watson at Bridgetown believes t hat American shirts could still be sold regarded as burdensome, even tak- by vigorous salesmanship. Wholeing into consideration that demand sale prices of shirts now on sale by consumers is so far below nor- vary from \$7.50 to \$14.90 per dozen. mal. When spinners or dealers have It would be necessary in order to substantial stocks, period of dull-enter the market to proceed with ness generally brings to light many great tact and courtesy since during great tact and courtesy since during reliable indications of the existence the war some American salésmen of such stocks. These signs are not created a bad impression by their methods of doing business

Alexandria Cotton Goods Stocks.

On January 31, there was in the bonded warehouses of Alexandria a stock of cotton goods amounting to 6,720 bales and cases. The stock on February 29 showed an increase and amounted to 7,882 bales and cases. On March 31 the stock had decreased to 7,767 bales and cases. Of the aforementioned totals, the stock of Manchester goods amounted to 2,821 bales and 379 cases on January 31; 3,224 bales and 491 cases on February 29; and 3, 198 bales and 405 cases on March 31,

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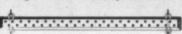
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- WANT position as superintendent or will take place as overseer, carding spin-ning or weaving, prefer weaving. Now employed in good North Carolina mill, but wish to change for better place. Best of references. No. 4135.
- WANT position as overseer carding in good sized room. Prefer Georgia or Alabama. Eighteen years as overseer in good mills. Now overseer in large mill but have good reasons for wishing to change Age 48, have family have good textile education and can run the job. No. 4136.
- OVERSEER carding, now employed, wishes to make change. My experience and training fit me to handle large job in good mill. Good manager of help, first-class references as to character and ability. No. 4137.
- WANT position as superintendent yarn mild of 10,000 to 15,000 spindles. Age 46, married, long practical experience, 12 years as superintendent. Now em-ployed but have good reasons for mak-ing change. References. No. 4128.
- WANT position as roller coverer. Am expert in roller covering and can demonstrate my ability in short time. Now employed in good mill. Want to correspond with mill needing man of unusual ability. No. 4140.
- WANT position as overseer of carding Long experience in handling a com-bination of both rooms and can get excellent results. Good references. No 4148.
- WANT position as electrician with good mill or some other manufacturing plant Have had 15 years' experience. Can furnish excellent references. No. 4149.
- WANT position as superintendent, or would accept place as carder or spinner. Practical man of long experience as both superintendent and overseer. Best of references. No. 4150.
- WANT position as overseer carding or spinning, or master mechanic and elec-trician. Employed at present but have good reasons for making a change. Can come on ten days' notice. First-class references. No. 4151.
- WANT position as overseer carding and spinning. Am 44 years old and have had 20 years' experience as overseer and assistant superintendent. Can fur-nish best of references. No. 4152.
- WANT position as overseer plain weaving or overseer cloth room. Have had more than 25 years' experience on practically all kinds of goods. Am qualified to handle either position. Age 46, have family. Best of references. No. 4153.
- WANT position as overseer spinning. Have had long experience in the spinning room and have taken a course with the I. C. S. Good references. No. 4154.
- WANT position as overseer of slasher department. Age 32, eight years' experi-ence as slasher and beamer. Good ref-erences. No. 4154.
- WANT position as overseer weaving. Long experience on wide variety of fabrics and am capable man in every respect. Good references from past and present employers. No. 4156.
- WANT position as superintendent of tire yarn or fabric plant, or fine combed yarn mill. Now located in East, but have had 6 years' experience in South. Long term of services superintendent and overseer and am reliable man who can get excellent results. Excellent references. No. 4357.

- ANT position as overseer cloth room. Long experience on lawns and sheet-ings and can guarantee satisfaction. Good references. No. 4158.
- WANT position as overseer of small card room or second hand in large room. Am also excellent card grinder Long experience in good mill. A-1 references. No. 4159.
- WANT position as superintendent. Have had 18 years as such and am now em-ployed in my 19th year. Can handle yarn or cloth mill and am high class, practical man. No. 4160.
- ANT position as overseer carding or spinning, or both. Past experience and training fits me to handle job in effi-cient manner. Good references. No
- WANT position as overseer spinning, or overseer weaving. Long experience in good mills in both departments. Reliable, steady man of good habits. Excellent references. No 4162.
- VANT position as master mechanic. Now employed. Experienced in both steam and electric plants and can han-dle work in satisfactory manner. Good references. No. 4163.
- ANT position as overseer spinning, experienced for many years on both carded and fine combed yarns. Would like to correspond with mill needing high-class man. Excellent references. No. 4164.
- WANT position as overseer weaving. Experienced on many different fabrics and am competent and reliable. No.
- WANT position as superintendent. Fitted by training and experience to handle large mill in satisfactory manner. Good references. No. 4166.
- WANT position as superintendent; yarn mill preferred. Now superintendent of good yarn mill and have held job for over two years. Giving entire satisfaction. Thoroughly understand carding and spinning. 15 years as superintendent and overseer. Good references. No. 4167.
- WANT position as superintendent of cloth mill. Long experience and can give references from many mill execu-tives to show excellent record of past service. No. 4168.
- WANT position as superintendent of yarn or cloth mill. Now employed as night superintendent but wish day job. References to show ability character and past record. No. 4169.
- WANT position as superintendent or will take overseer's place in any de-partment. Thoroughly qualified to han-dle any room in the mill. Best of ref-erences. No. 4170.
- WANT position as superintendent or carder and spinner. Will go anywhere. Prefer yarn mill of 5,000 to 30,000 spin-dles. Can come at once. Best of ref-erences. No. 4176.
- WANT position as carder or spinner. Ten years' experience in carding, spinning and winding. Now employed, but will change on short notice. Age 27, with family, References from present and past employers. No. 4172.
- ANT position as superintendent Prac-tical man, good pusher, can get quality production on all classes of yarns. Good references. No. 4173.
- ANT position as overseer spinning. Practical man of long experience on practically all yarn counts made in South. Good references. No. 4174.
- WANT position as overseer spinning Have had 20 years' experience in spin-ning, spooling and warping in some o best mills in South, and West, both white and colored work. Age 36, mar ried, sober now employed as overseer Good references. No. 4175.
- WANT position as superintendent would take overseer of carding spinning. Many years' experience superintendent and overseer and well qualified in every respect. I of references. No. 4171.
- SUPERINTENDENT or carder and spin-ner desires position. Would take place as night superintendent in large mill. Prefer mill on plain work. Satisfactory references. No. 417?
- WANT position as superintendent of mill or plain weaving or hostery yarn. Am now 22 years of age and can give good references. Now employed as superintendent. No. 4178.

- ANT position as superintendent or assistant superintendent in medium size mill. Would consider weave room in large mill. Best of references. No. 4179.
- WANT position as spinner. Age 48. Have had 20 years' experience and can give excellent references. No. 4180.
- WANT position as superintendent of fin-ishing in yarn plant. Long experience in large Eastern mill and have excellent record of service. Fine references. No.
- ANT position as carder or spinner, or box comber. Am specialist in combed yarn work and have had a long term of satisfactory service. Excellent refer-ences. No. 4182.
- WANT position as shipping clerk. Four years' experience and can handle big job Now employed as shipping clerk Gilt-edged references. No. 4183.
- VANT position as carder and spinner. Now employed as such, but wish a larger place. Experienced, practical and reliable man. No. 4184.
- WANT position as overseer finishing de-partment, white or colored goods. Have had 16 years' experience in cloth room, 12 years as overseer on white and col-ored goods, wet and dry finish. Best of references. No. 4185.
- VANT position as overseer spinning. Have had 12 years' experience as over-seer and can furnish best of references. No. 4186.
- ZANT position as overseer weaving. Can handle either plain or fancy work both colored and white Now employed. First-class references. No. 4187.
- WANT position as superintendent, carder, spinner or carder and spinner. Have acceptably filled overseer's position for long term of years. Best of references. No. 4188.
- WANT position as master mechanic and engineer. Experienced and skilled me-chanic of long experience. Best of ref-erences. No. 4189.
- WANT position as overseer spinning. 12 years as overseer and 5 years as overhauler in spinning and twisting. Good references. Address No. 4190.
- WANT position as superintendent, or overseer weaving or designer. Have specialized in fancy weaving and designing and can show samples that have proved business getting. Long record of satisfactory service in fine weaving plants. Good references. No. 4192.
- WANT position as superintendent of small yarn mill or carder and spinner in larger mill Have had 20 years as overseer. Good references. No. 4191.
- WANT position as superintendent or carder and spinner. Now employed but want better job. First-class references. No. 4193.
- WANT position as superintendent. Pre-fer weaving mill. Practical man of long experience on great variety of fabrics. Good references. No. 4194.
- ANT position as overseer carding anywhere in South. Long experience and also graduate of I. C. S. Good references. No. 4197.
- VANT position as overseer spinning, twisting or winding at not less than \$40 weekly. Have had 25 years in the mill. 10 years as overseer, have run present room 3 years. Good references. No. 4195.
- WANT position as overseer weaving. My experience has been as overseer in a number of large weave rooms and many kinds of goods. Excellent references. No. 4196.
- WANT position as overseer of small weave room on plain goods. Am hus-tler for quality production and good manager of help. Good references. No. 4198.
- WANT position as carder or spinner or superintendent. Now employed. Many years as both superintendent and over-seer and am competent worker. Good references. No. 4199.
- WANT position as carder. Have had years as overseer and can give first class references. No. 4200.
- VANT position as superintendent of yarn or weave mill, or overseer weaving. Long experience in carding, spinning and weaving and winding and can give good references. No. 4201.
- WANT position as superintendent of yarn mill. Prefer plant on tire fabrics. Experienced man of good habits and character and can give good references. No. 4202.

- VANT position as overseer weaving on any kind of plain work; 12 years as overseer and have always been able to get the goods. Now employed but have good reasons for changing. Good ref-erences. No. 4202.
- WANT position as spinner. Have held present job for over 6 years and made good record. Can get quality produc-tion at right price. Good references No. 4203.
- WANT position as carder or carder and spinner. Am hustler for production and quality and know how to keep costs down. No. 4204.
- WANT position as superintendent of yarn mill. Have had 12 years' experience. Have finished course in grading and stapling cotton. Know mill business thoroughly. Best of references as to character and ability. No. 4206.
- WANT position as carder in small mill or second hand in large mill. At present employed by good mill but desire to change. Good references as to charac-ter and ability. No. 4207
- WANT position as carder. Thoroughly understand the carding process and have long term of experience in good mill. Best of references. No. 4208.
- VANT position as superintendent. Ex-perienced and reliable man who can get results. Experience gained in some of the best mills in the Carolinas. Ex-cellent references. No. 4209.
- WANT position as superintendent. Am competent executive and good manager of help, experienced in all departments of nill and man of good character and habits. Best of references. No. 4210.
- WANT position as superintendent of medium sized yarn mill or assistant superintendent in large mill. Prefer mill in Georgia, Alabama or Missippi. Long experience as overseer spinning. Have held present place as assistant superintendent for many years, making 4s to 40s single and ply cones, tubes, skeins and warps. References. No. 4111.
- WANT position as superintendent or overseer carding and spinning. Am 41 years old, have had 20 years' experience as overseer and superintendent of mills in Georgia. Can give good references as to character and ability and can come at once. Good manager of help, No. 4113.
- MASTER mechanic and chief engineer of extraordinary ability will consider proposition by March first. Fine machinist and mechanical engineer. Correspondence strictly confidential. No. 4114.
- VANT position as superintendent of yarn mill, or would accept place as carder and spinner. Practical man of long experience who can get results and who can successfully manage help. References. No. 4423.
- WANT position as overseer carding. Qualied by experience and training to handle card room in thoroughly practi-cal and up-to-date manner. Good ref-erences. No. 4224.
- WANT rposition as superintendent of overseer large weve room. Now employed as superintendent but would like better job. Have long record of successful service and references to show it. No. 4225.
- WANT position as overseer weave room or cloth room. Now employed, but wish larger job. Experienced on many lines of goods, competent and reliable References to show character and abil-ity. No. 4226.
- WANT position as assistant superintendent. Age 25, graduate of well-known textile school, three years' experience in all departments of mill, two years as manager of testing laboratory in large mill. Excellent reference. No. 4227.
- WANT position as overseer weaving. My experience covers a long term of years in a number of first-class mills, making a wide variety of goods. Excellent references. No. 4228.
- WANT position as carder and spinner, either or both. Age 35, have family. Experienced man who can give as reference some of the best mills in the South. No. 4231.
- WANT position as overseer of weaving or superintendent of plain weaving mill Long experience as both superintendent and overseer and can get excellent re-sults. __o. 4233.

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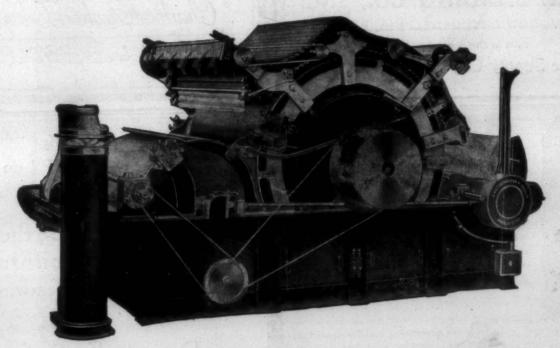
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